A Catalogue of Surgical Instruments and Surgical Sundries

MINIATURE EDITION

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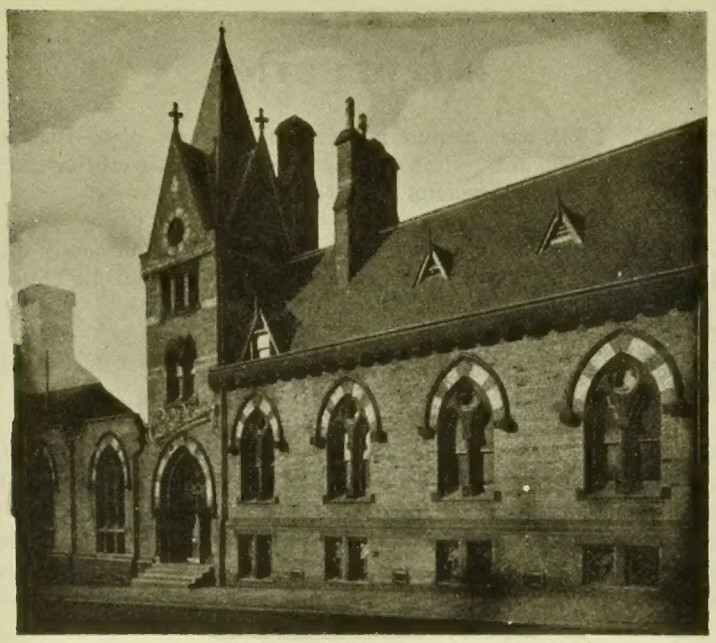
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Chas. F. Thackray Ltd.



Head Office *formerly* "The Old Medical School at Leeds"

CATALOGUE OF SURGICAL INSTRUMENTS AND SURGICAL SUNDRIES

(MINIATURE EDITION)

by

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THACKRAY
LIMITED

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INTRODUCTION

CHAS. F. THACKRAY LTD. have pleasure in presenting this new, up-to-date catalogue of Surgical Instruments, Appliances and Sundries, which is complementary to their existing green-bound catalogue of Hospital Furniture, Sterilization Apparatus and Surgical Sundries.

This edition is fully illustrated, contains many new instruments not previously listed and, as far as possible, obsolete patterns have been omitted to ensure an up-to-date selection of instruments in everyday use.

Acknowledgment is made to the many leading surgeons who have given their advice, assistance and permission to illustrate their instruments.

CHAS. F. THACKRAY LTD. have well-equipped modern workshops situated at St. Anthony's Road, Leeds 11, where their products are made by skilled craftsmen. In addition to Surgical Instruments, other items manufactured include Sterilization Apparatus, Operation Tables, Theatre and Ward Equipment, etc. A high standard of quality is maintained and every care is taken to ensure correctness to pattern. Members of the Medical and Nursing Professions and Hospital Administrators are cordially invited to visit our workshops to see the actual making of instruments and equipment.

STAINLESS STEEL (a British invention) is the material of choice for Surgical Instruments and, where practicable, items are made from this grade of steel.

CHAS. F. THACKRAY LTD. reserve the right to improve existing models of instruments when given professional advice that such alterations are proved of definite value.

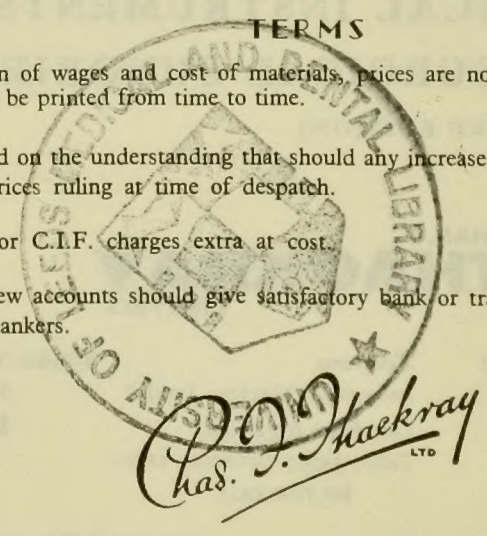
TERMS

Due to the fluctuation of wages and cost of materials, prices are not printed in this catalogue, but a separate price list will be printed from time to time.

All orders are accepted on the understanding that should any increases occur before supply, they will be charged out at the prices ruling at time of despatch.

Packing and F.O.B. or C.I.F. charges extra at cost.

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QUALITY

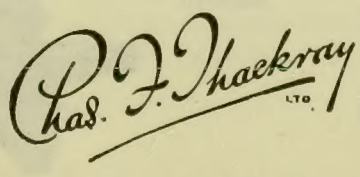
Thackray Products represent the best obtainable in material, workmanship and durability. They set the standard for efficiency and lasting service.

In manufacturing, price is not considered until Thackray products fulfil every demand of modern Surgical practice and the finished article meets every requirement for efficient service, dependability and appearance. The price is then fixed as low as possible consistent with the cost of production.

Thackray Products are built to give satisfactory service and you are respectfully asked to bear this in mind when perusing the following pages.

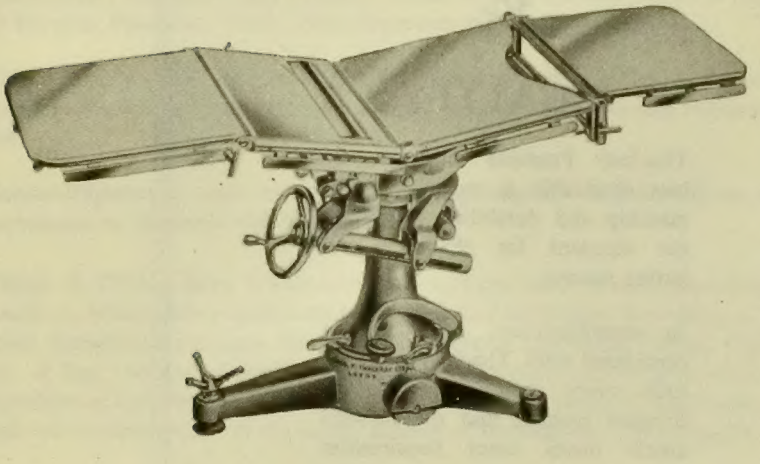
"*There is hardly anything in the world that some man cannot make a little worse and sell a little cheaper, and people who consider price only are this man's lawful prey.*"

RUSKIN



Chas. F. Thackray Ltd.

THE "THACKRAY" OPERATION TABLE
NEW UNIVERSAL MODEL OF IMPROVED DESIGN
Adaptable for General and Specialised Branches of Surgery



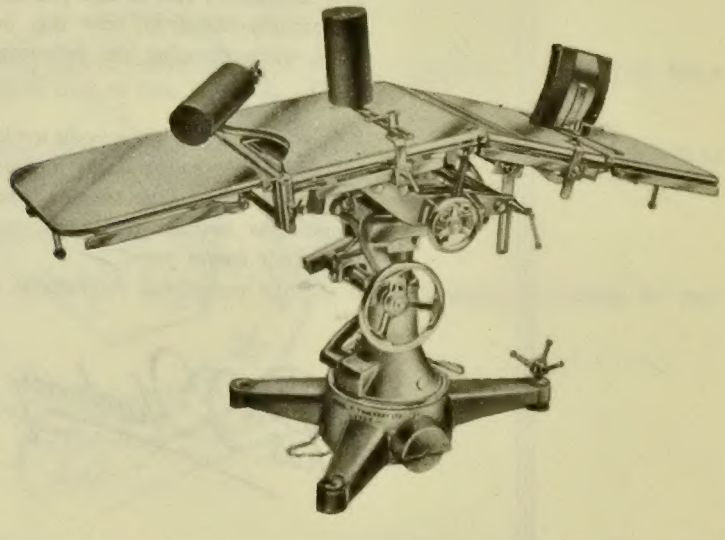
Divided Trunk Section can be angulated up or down to give various positions for gall bladder, kidney and thoracic operations.

Trendelenburg and reversed Trendelenburg positions controlled by a **LARGE HAND-WHEEL UNDERNEATH HEAD-END OF TABLE.**

Other special features include: Improved Oil-Pump Base and **STAINLESS STEEL TOP,** Removable Foot End Flap.

Complete range of Accessories.

Table can be adjusted to *Lateral Tilt* position and fitted with padded supports. Buttock, Pelvic and Chest.

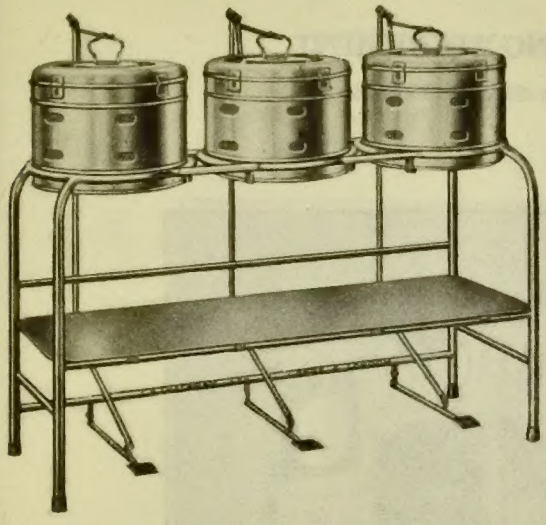


"MODERN OPERATION TABLES" — A CATALOGUE SHOWING COMPLETE RANGE OF MODELS AVAILABLE ON REQUEST.

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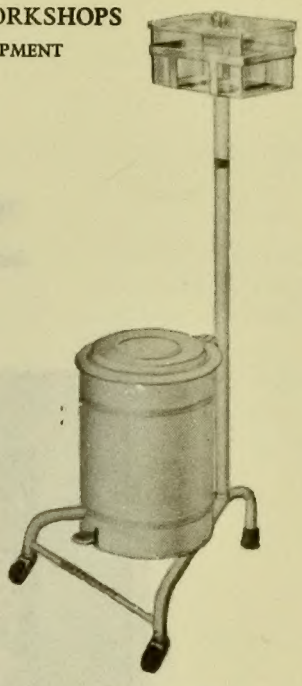
PRODUCTS OF THE THACKRAY WORKSHOPS

A Few Examples of Hospital Equipment



PEDAL-ACTION STERILIZER DRUM STAND

Lids of drums opened by foot-pedals. Fitted with shelf for spare drums.



TROLLEY FOR MASKS

Designed for use in Maternity Wards. Fitted with acrylic box on upright for clean masks and receptacle at base for disposal of used masks.



TWO NEW MODELS OF SURGEON'S STOOLS

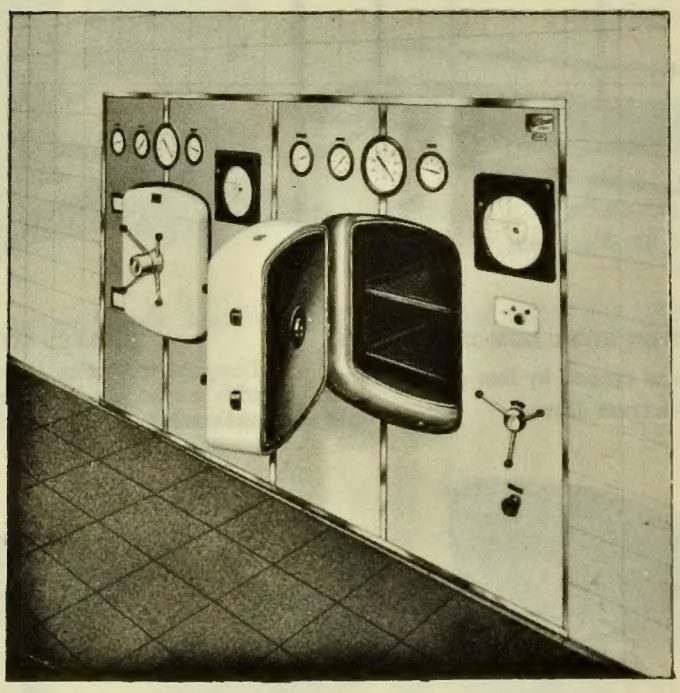


Specially designed for "Sitting Down to Surgery" (*vide* "*Lancet*", *April 4th*, 1953, *pages* 690–2). Adjustable for height, comfortable saddle-shaped seats. The model on right has a strong coiled-spring on its heavy base to enable the surgeon to instantly adjust his posture.

SEPARATE CATALOGUE SHOWING COMPREHENSIVE SELECTION OF HOSPITAL EQUIPMENT AVAILABLE ON REQUEST

STERILIZING EQUIPMENT

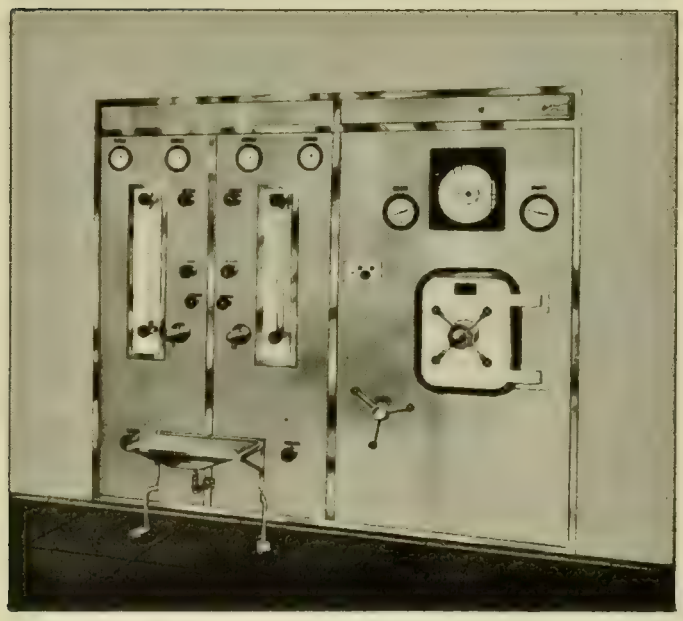
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Suite of High Speed
High Vacuum Dressings autoclaves supplied to the Colonial War Memorial Hospital, Suva, Fiji

STERILIZING EQUIPMENT

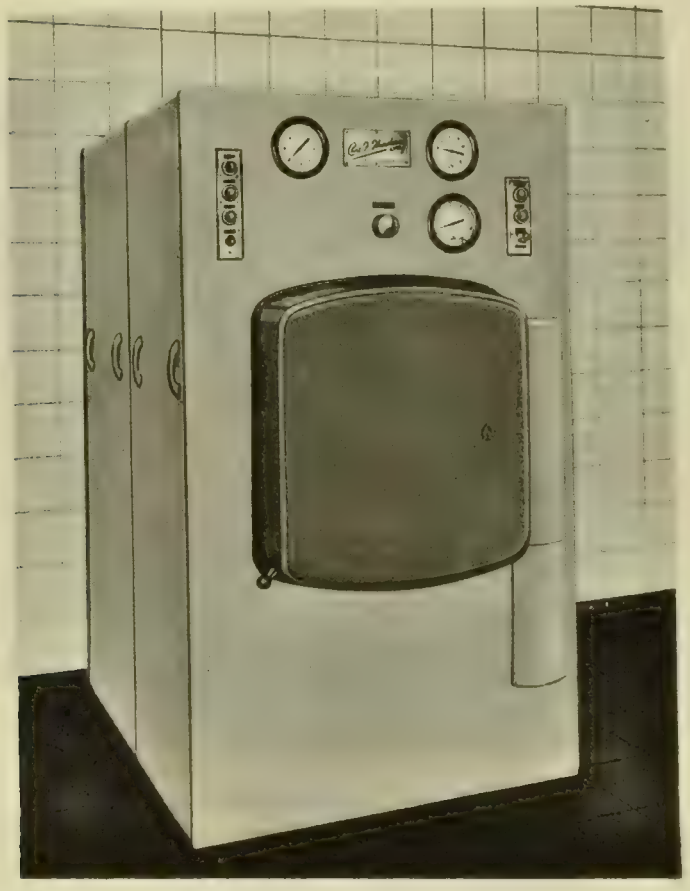
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Suite of High Speed Instrument and
Utensils autoclaves with High Pressure Water Sterilizers supplied to the
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STERILIZING EQUIPMENT

manufactured by Chas. F. Thackray Ltd.



Fully Automatic High Speed
Dressing autoclave conforming to latest British Standard Specification

THE MANUFACTURE OF SURGICAL INSTRUMENTS AND EQUIPMENT

AS WOULD BE SEEN DURING A TOUR OF THACKRAY'S WORKSHOPS AT ST. ANTHONY'S ROAD, LEEDS, 11.

Hand-forged Instruments:

Surgical instruments, in some form or other, are nearly as old as man himself. One of the earliest surgical operations was that of trepanning, which was performed by surgeons of the Neolithic period, using tools made of flint. A study of the annals of recorded history would reveal a fascinating array of instruments, operation tables and apparatus.

A visit to a modern factory producing the tools and equipment for use by the surgeon is an interesting experience. It is surprising how few members of the medical and nursing professions have visited the places where the instruments on which they depend are made. It is also surprising to learn from visitors



Fig. 1. Hand-forging of surgical instruments

of the many misconceptions which are prevalent as to the methods of manufacture from "pouring molten metal into moulds" to "putting a piece of steel in a machine at one end to produce a finished instrument at the other."

Surgical instruments are made from a variety of materials such as steel, brass, copper, silver, etc. Perhaps the most important is steel and more particularly *stainless steel;* this British invention is a comparatively recent innovation but is now almost in universal use for steel instruments.

Stainless steels are of several varieties, but the surgical instrument maker is mainly concerned with one, which can be hardened and tempered.

This is a high chromium steel and is similar to that used in the manufacture of stainless cutlery. It reaches the factory in the form of bars which may be square, rectangular or round in section. Looking at these lengths of rough material with a dark grey appearance, one wonders how such pieces of metal can

The Manufacture of Surgical Instruments and Equipment *(Continued)*

be fashioned into gleaming highly-polished instruments which are rust-proof. Such a transformation reveals craftsmanship at its best.

Surgical instrument making, from bar to finished instrument such as a forceps, is roughly divided into three separate crafts—forging, fitting and polishing. Perhaps the most fascinating to the onlooker is the first. The hand-forger of surgical instruments is in a special class of his own, when the vast number of patterns of steel instruments and the wide variety of shapes, both simple and intricate, are considered. Everything depends on the forger in providing the rough forgings to correct size and shape for the fitter. In Fig. 1 is a corner of a hand-forging department where these skilled workers can be seen drawing out and

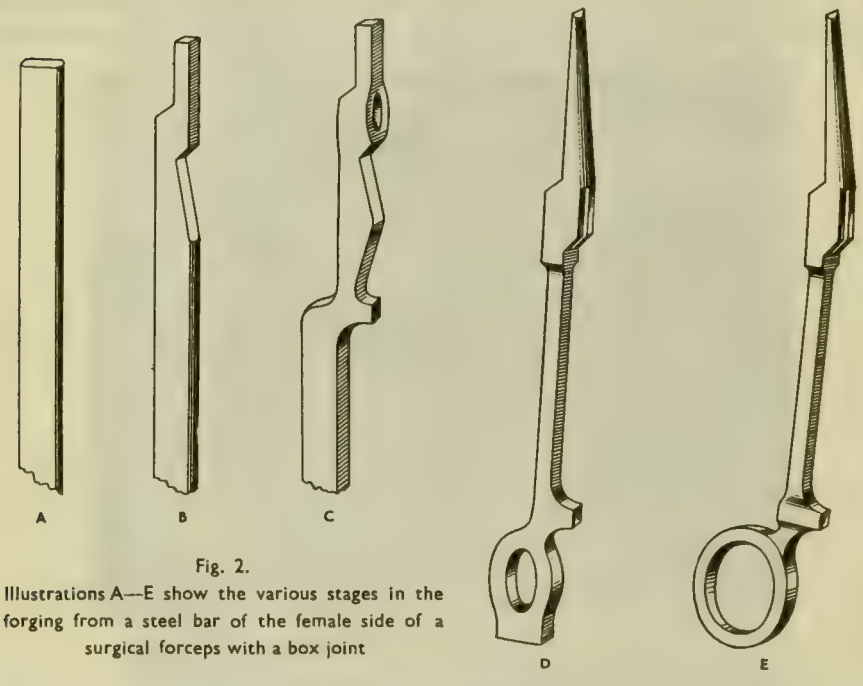


Fig. 2.
Illustrations A—E show the various stages in the forging from a steel bar of the female side of a surgical forceps with a box joint

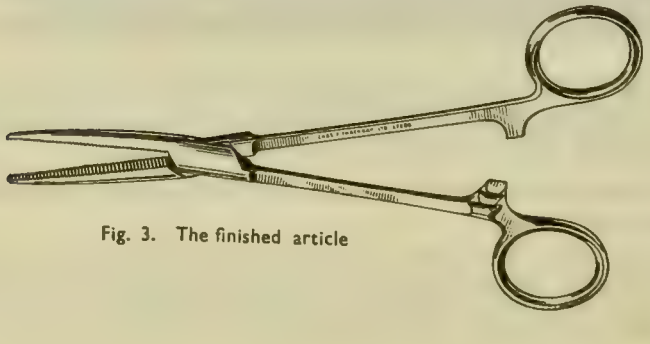


Fig. 3. The finished article

The Manufacture of Surgical Instruments and Equipment *(Continued)*

shaping bars of steel into forgings. The steel bar is heated in a blacksmith's hearth until it is red hot, and in that plastic condition which enables it to be hammered and "drawn" to the required profile. Fig. 2 shows the various stages in the shaping of a hand-forged forceps and Fig. 3 the finished article.

After the stainless steel has been forged, it becomes extremely hard and brittle on cooling in air. To enable the fitter to file, machine and grind these forgings, it is necessary to anneal them. This is a process of softening and it is done by heating the forgings to a certain controlled temperature and allowing them to cool very slowly, preferably out of contact with the atmosphere; this minimises scale formation on the surface.

The fitter, with a batch of rough forgings and a finished "pattern" before him, now applies his skill to reduce them to their final shape and size.

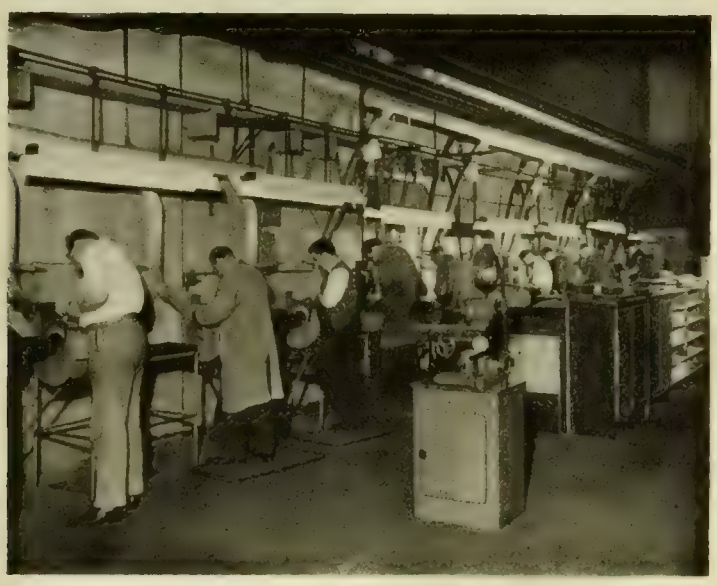


Fig. 4. Surgical instrument grinding and polishing

First, he straightens out the forgings and removes some excess metal by mechanical grinding (Fig. 4) and by hand filing, also shapes the joints if he is working on articulated instruments. If forceps are being made, serrations on the jaws must then be milled and the racks cut, these two processes being carried out on machines with special milling cutters which have been accurately made from very hard steel. Fig. 5 illustrates a typical modern fitting shop with machines for milling, drilling, grinding, etc. The instruments are then fitted together and ground to correct size on power-driven grinding wheels. This is an art in itself and the fitter must, of necessity, develop a good "eye" for shape. Finally, the instruments are correctly "set"—a particularly important operation in the case of pressure forceps.

While all the various phases in the manufacture of stainless steel instruments are important, one which is vital is the hardening and tempering process. After the fitting stage the instruments are still "soft". Carefully controlled heat treatment is now necessary to impart that degree of temper or "springiness" which is essential if these tools are to perform their function correctly. This is achieved by immersing the

The Manufacture of Surgical Instruments and Equipment (Continued)



Fig. 5. Surgical instrument fitting shop

instruments in a bath of special salt, which has been liquified by heating it to 960–980 deg. Centigrade, and then at once quenching them in oil which is kept at room temperature; this re-hardens the steel (see Fig. 6 which shows a batch of forceps ready for quenching in oil).

This is followed by a further heating in a different type of molten salt to 340–450 deg. Centigrade (according to the grade of steel) to impart the necessary temper. This second heating ensures toughness and springiness, particularly important in the case of heavy pressure forceps and the like.

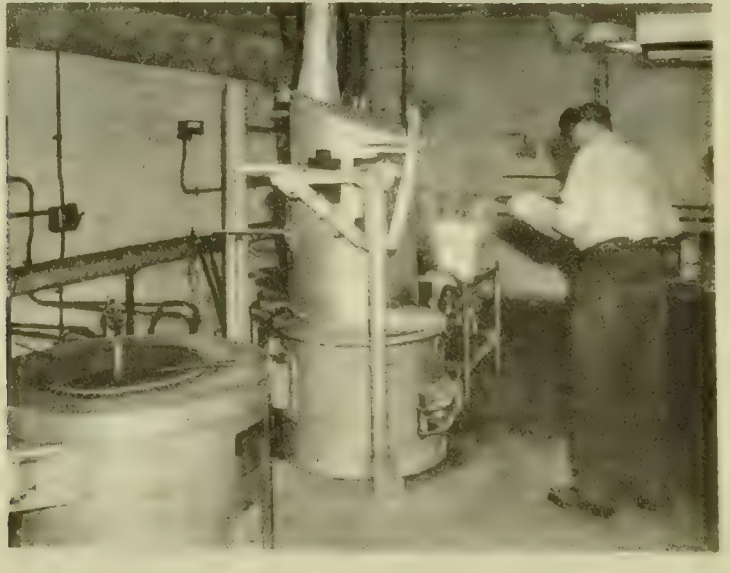


Fig. 6. Surgical instrument hardening and tempering

The Manufacture of Surgical Instruments and Equipment *(Continued)*

During the hardening and tempering processes small amounts of "scale" are deposited on the surfaces of the instruments, particularly in the serrations, racks, etc. This scale, which is an oxide, is extremely hard and is difficult to remove during polishing. Most manufacturers pickle all stainless steel instruments in a 10 per cent solution of Nitric Acid immediately after heat treatment. In this way the scale deposits are dissolved away or softened and removal by polishing is rendered easy.

The tools then pass to the polisher after the fitter has checked their alignment and corrected any slight distortion which may have developed during the hardening and tempering. The polisher, who is a skilled worker, puts the final touches to his colleagues' work. Polishing of stainless steel instruments is carried out in four stages on power-driven wheels which revolve at high speeds. Fig. 6 shows a typical battery of power-driven polishing spindles. First, there is the rough wheel, coated with rough emery powder; second, a fine wheel with fine emery powder, and third, a circular revolving bristle brush to which a fine



Fig. 7. Production of operation tables

abrasive compound is added as required. After successive treatment on these three wheels, the surface of the instrument has assumed a dull or matt finish. The brilliant mirror finish, which is a special characteristic of a surgical tool, is produced by manipulating it against a revolving calico mop, to the circumferential surface of which is added, as required, a special wax polishing compound. This mop revolves at 2,850 revolutions per minute. This process is particularly important as stainless steel instruments depend for their rust-resisting and non-staining properties on a very high degree of surface polish. Electrolytic polishing is also employed for many instruments. This process is particularly suitable for surgical implants where a highly polished chemically-clean surface is desirable.

It will be appreciated that there are a number of patterns of instruments in common use which have become standard for size and shape. The forgings for these are produced from bar steel by means of a mechanical drop hammer in which there is fixed a pair of accurately-made dies of hard steel. Such forgings are uniform in shape and consequently somewhat easier to machine, but otherwise they are fitted and polished in exactly the same way as hand-forgings.

The Manufacture of Surgical Instruments and Equipment *(Continued)*

Operation Tables and Equipment:

Inspection of operation tables, etc., in course of manufacture, underlines the need for the construction of this equipment to be undertaken with skill of a special order. All machined parts must be accurately made so that the finished product will function smoothly and efficiently. A modern operation table on its oil pump base, with its many mechanical devices to tilt it in various directions, and its highly-polished stainless steel top, is a perfect example of light engineering at its best. In Fig. 7 is shown a corner of a department where these tables are being fabricated and fitted together. In an adjacent department may also be seen the fabrication of stainless steel theatre and ward equipment, which is mostly made from stainless steel tube, welded together and then highly polished to a mirror finish.



Fig. 8. Machining operation table and sterilizer parts

Sterilizing apparatus:

A visit to a Surgical Instrument and Equipment factory is not complete without an inspection of the Sterilizer Department. Here may be seen the making of sterilizers for instruments, bowls, water and dressings. Sterilizers begin life in the coppersmith's shop as sheets of copper and brass and gun-metal castings, except the very largest autoclaves, which are usually constructed from heavy steel plates. Copper is the traditional metal for most sterilizers as it is ductile and easy to fabricate, takes a high polish to provide a brilliant chrome plated finish, and owing to its non-rusting property gives a life-time of service. Figs. 8 and 9 illustrate two departments where sterilizer parts are machined and the finished articles erected and tested.

The tour is now almost complete, but before leaving, the surgical instrument pattern room where literally hundreds of instruments (including some which are now obsolete) as well as a large array of tools and jigs should be inspected. Here, also, are kept the drawings and sketches of hundreds of special instruments

The Manufacture of Surgical Instruments and Equipment *(Continued)*

which have been made throughout the years. The works foreman, as well as being a highly skilled craftsman, is somewhat of an artist as well, for it is he who prepares the drawings.

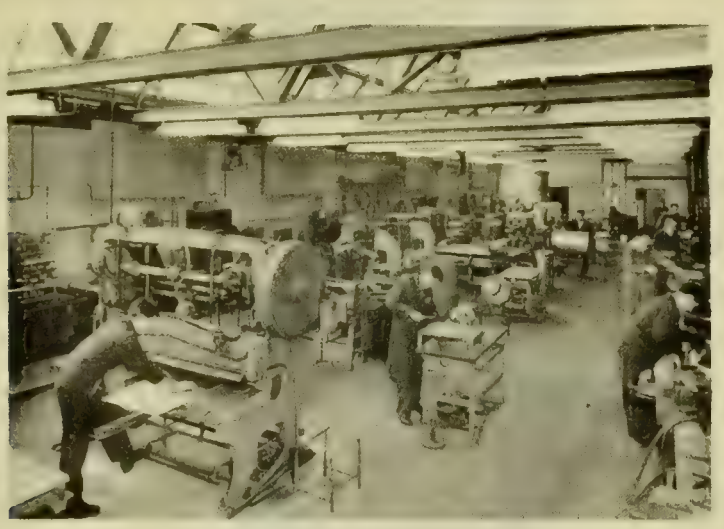


Fig. 9. Manufacture of Sterilizing apparatus. Copper shop

It will now be appreciated that the making of surgical instruments requires skill of a special kind. It is a craft which requires a long period of training and this, coupled with experience, enables the maker to judge the right "feel" of the instruments; he must also know instinctively that the serrations and ratchets are correct so that the points of the forceps will grip and hold securely without slipping. His knowledge, allied with correct heat treatment, etc., enables the manufacturer to supply tools which he knows will be as near perfection as possible when placed in the hands of the surgeon.

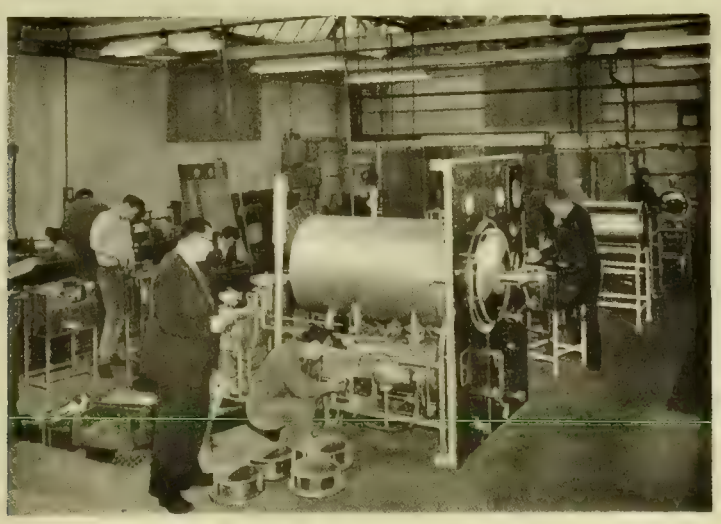


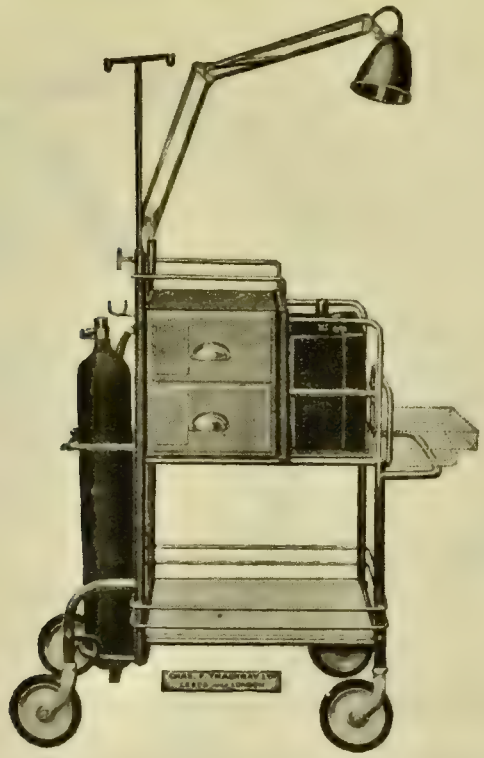
Fig. 10. Manufacture of Sterilizing Apparatus. Assembly and testing

THE ILLUSTRATIONS (FIGS. 1-10) ARE FROM PHOTOGRAPHS TAKEN IN THE WORKSHOPS OF CHAS. F. THACKRAY LTD.

BRIEF INDEX

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ADDENDA	AD834–*et sequentes*



Cat No. Min.I RESUSCITATION TROLLEY as made for the Department of Anaesthetics, the General Infirmary at Leeds. Described in the article 'A Resuscitation Service' by J. G. Whitwam, M.B. Leeds, F.F.A.R.C.S., Senior Registrar, and J. Norman, M.B., Leeds, Registrar—the *Lancet*, 5 January, 1963.

This trolley has been designed to carry all essential equipment likely to be needed for the immediate treatment and resuscitation of a collapsed patient. It is made of tubular steel, mounted on large ball-bearing castors, and is enamelled a distinctive metallic blue colour so that it can be instantly recognized when required.

One of its special features is a Physician's Leather Case with drop-down lid and drawers, and this contains all the necessary drugs, syringes and other items which are likely to be required for immediate treatment. It is worth noting that if for any reason the Trolley is delayed on its way to the patient, the Physician's Case can be taken to the patient, whilst the trolley follows.

The trolley is fitted with two shelves to hold a defilbrillator with electrodes, foot suction pump and bottles of intraveneous fluids, transistorized electrocadiograph, etc.

An adjustable double hook transfusion pole is fitted in one of the vertical legs of the trolley.

There are also two drawers underneath the top shelf, to contain transfusion equipment, internal defibrillator electrodes, thoracotomy instruments, endotracheal and endobronchial tubes, etc.

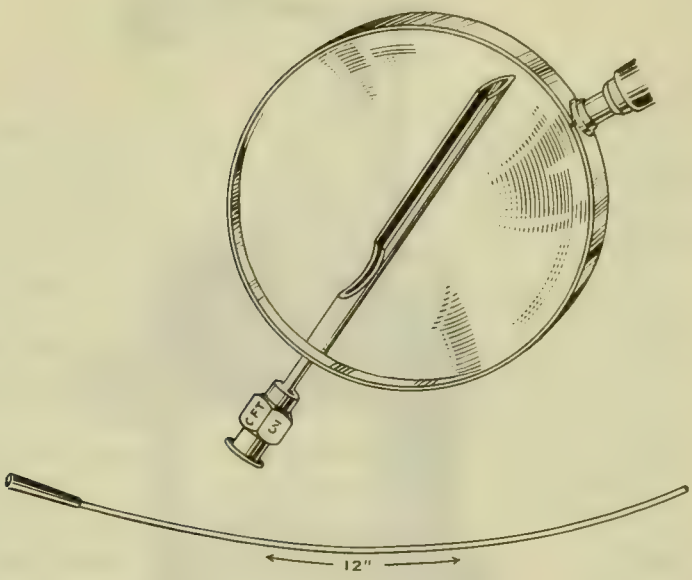
The Trolley is fitted with an 'Anglepoise' Lamp, also a cage to hold a 48 cu. ft. cylinder of Oxygen.

The trolley framework is so designed that when the lid of the leather emergency case falls down, it is supported on a hinged drop-down frame (to act as a tray).
Height to top shelf, 41½ in., width 22 in., length 32 in.

Complete with physician's leather case.
Schedule of the basic equipment carried on the above trolley is available on application.

GENERAL OPERATION INSTRUMENTS

ANÆSTHETIC ACCESSORIES



THE MACGREGOR INTRODUCING NEEDLE. A Thackray speciality

A new intravenous device designed to facilitate routine drip procedure. Originally described by Dr. J. D. Macgregor, Chief Medical Officer, British Solomon Islands, in the *Lancet*, 5 March 1960.

DESCRIPTION. The Macgregor Introducing Needle has a slotted shaft, which is widened at its proximal end to enable a disposable Nylon catheter to enter its lumen.

By inserting the catheter to within a millimetre or so of the needle-point, the needle and its contained catheter can thus be inserted into the vein.

Standard fitting Luer-lock mount on the needle-hub facilitates introduction as any convenient side-nozzle syringe may be used as a handle (see Figs. 1–3).

Seven sizes are available suitable for a complete range of Nylon catheters for all normal intravenous therapy, hubs of needles being marked to indicate the size of catheter required.

The Nylon Catheter. Each catheter is double-packed in polythene and gamma-ray sterilized for immediate use. Catheter length is 12 in. in seven sizes (2–8 F C G.).

Luer fitting mount, different colour for each size.

Record fitting needles and catheters are available on request.

ADVANTAGES

1 No venous cut-down.

2 No local anaesthetic necessary for small size (2 F.C.G.). Local anaesthesia required for larger sizes.

3 No sharp, rigid needle in vein.

4 Puncture of venous wall precluded

5 No arm splint required.

6 Re-sterilizable steel needle.

THE MACGREGOR INTRODUCING NEEDLE

PROCEDURE 4 SIMPLE STAGES

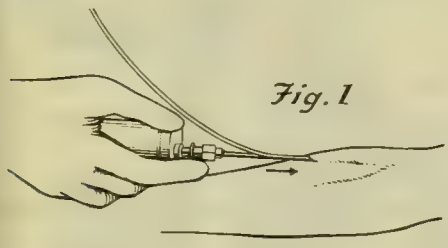


Fig. 1

1
Catheter is inserted into lumen of needle through the proximal widened part of the slot (*not* through needle-hub) almost to the needle-point. Using a side-nozzle syringe as a handle, needle is introduced into selected vein (Fig. 1).

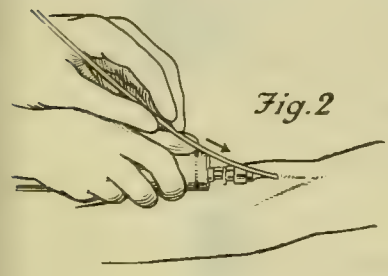
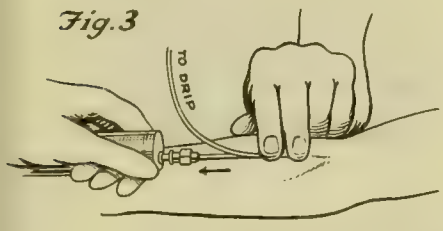


Fig.2

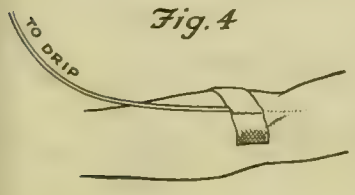
2
Catheter is pushed forward gently into vein; catheter-mount is attached to 'drip' set and infusion commenced (Fig.2).

Fig.3



3
Steadying catheter to prevent inadvertent withdrawal from vein, needle is removed parallel to limb (Fig.3).

Fig.4



4
Catheter is secured with adhesive tape over dressing (Fig.4).

GENERAL OPERATION INSTRUMENTS

ANÆSTHETIC ACCESSORIES

THE MACGREGOR INTRODUCING NEEDLE

Macgregor needle sizes	18 gauge ×1½ in.	18 gauge ×1½ in. thin wall	16 gauge ×1½ in.	14 gauge ×1¾ in.	12 gauge ×1¾ in.	11 gauge ×2⅛ in.	9 gauge ×2½ in.
Intravenous Catheter sizes	2 F.C.G.	3A F.C.G. (approx. 2½ F.C.G.)	3 F.C.G.	4 F.C.G.	5 F.C.G.	6 F.C.G.	8 F.C.G.
Catheter mount colours	Green	Blue	Pink	White	Red	Yellow	Orange

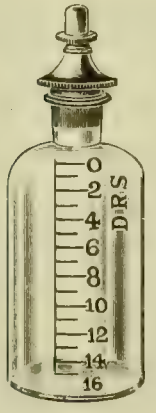
F.C.G. = French Catheter Gauge.

Cat. No.

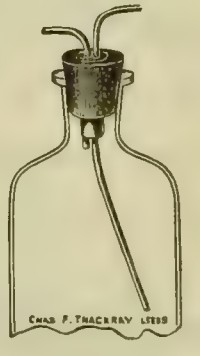
4–6643 MACGREGOR NEEDLE, with slotted stainless steel shaft for introducing intravenous catheters, Luer-lock* mount, sizes as listed above.

4–6644 NYLON INTRAVENOUS CATHETER, for use with above, sterile, 12 in. long, Luer* mount, sizes as listed above.

* Record fitting can be supplied on request.



G14



G22

Cat. No.

G14 DROP BOTTLE, MILLS', clear glass, graduated in drachms, metal top with screw-on cover .. .. 2 oz. capacity,

G15 Ditto .. .. 4 oz. capacity,

G22 ETHER DROPPER, BELLAMY GARDNER'S, chromium plated, with rubber stopper to fit ordinary dispensing bottles .. ..

G23 Spare Rubber Stoppers .. ..

ANÆSTHETIC AND ANALGESIC APPARATUS



G37 G36

Cat. No.

G36 CYPRANE "TRILENE" INHALER, complete with facepiece and key. Concentration of anæsthetic is variable over very wide range and can be locked in the setting desired. No glass parts, each

G37 BEDRAIL ATTACHMENT for fitting to a convenient support, each

*G38 WRIST STRAP to prevent accidental damage due to dropping and ensure that apparatus is ready to hand .. each

*G39 FILLER MEASURE to provide an accurate and easy means of filling with correct charge, each

*G40 EQUIPMENT CASE to hold the complete set of apparatus ready for any emergency. each

Fully descriptive leaflets will be sent on request

THE CYPRANE NOSEPIECE AND HEADBAND

Designed for use with the standard Gas-oxygen machines to ensure gas-tight fit on the face and freedom from inspiratory effort. Nosepiece cannot move out of position but remains comfortable. Can be used for "Trilene" analgesia with the Cyprane Inhaler.

Cat. No.

G41 Nosepiece and Headband, each

*G42 Dental unit attachment to fit Inhaler .. .. each

*G43 Cyprane Inhaler without facepiece .. .. each

*G44 Adapter to connect to American apparatus .. .. each



G41

**Not illustrated*

GENERAL OPERATION INSTRUMENTS

ANÆSTHETIC ACCESSORIES



G49



G52

Cat No.

G49 GAS BAG, for Nitrous Oxide, red or anti-static rubber, double ended, 1 gallon capacity, each

G50 Ditto .. .. 1½ gallon capacity, each

G51 Ditto .. .. 2 gallon capacity, each

G52 REBREATHING BAG, red or anti-static, rubber, single ended 1 gallon capacity, each

G53 Ditto .. .. 1½ gallon capacity, each

G54 Ditto .. .. 2 gallon capacity, each

*G55 RUBBER TUBING, for Anæsthetic Apparatus, thick walled, white for Oxygen, per yard

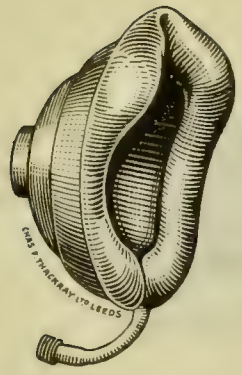
G56 Ditto .. green for Carbon Dioxide .. .. per yard

G57 Ditto .. black for Nitrous Oxide .. .. per yard

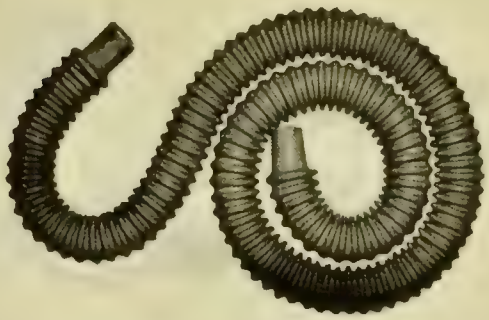
G58 Ditto .. red for Cyclopropane .. .. per yard

G58A Ditto .. Black anti-static with longitudinal yellow line, ¼″ bore, ⅛″ wall per yard

**Not illustrated*



G59



G62

Cat. No.

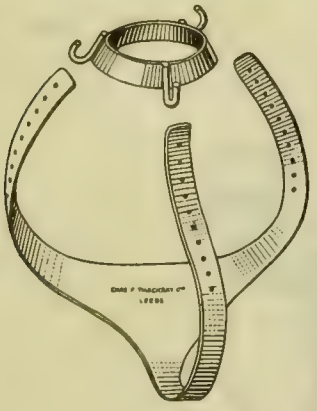
†G59 FACEPIECE, malleable rubber, with inflatable pad, six sizes: 0, 1, 2, 3, 4 and 5 each

G60 Ditto .. with non-inflatable sponge rubber pad, three sizes: 1, 2 and 3 each

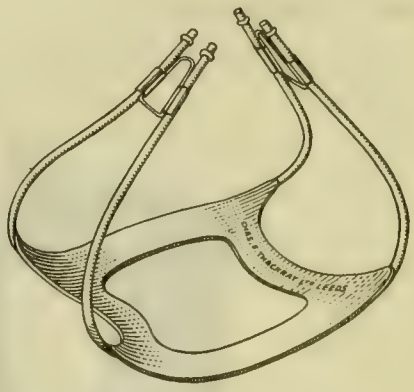
G60A Ditto .. shallow for children, two sizes : 0 and 1 .. . .. each

†*G61 FACEPIECE, malleable rubber, with inflatable pad and metal studs for Connell's harness, six sizes: 0, 1, 2, 3, 4 and 5 .. .. each

†G62 CORRUGATED FLEXIBLE TUBE, 3½ feet long .. .. each



G63



G65

†G63 CLAUSEN'S HARNESS, consisting of rubber headband and chromium plated ring with hooks .. .. each

†G64 Spare Rubber Headband .. .. each

†G65 CONNELL'S HARNESS, consisting of rubber headband and chromium plated adjusting hooks for attaching to studded type facepiece .. .. each

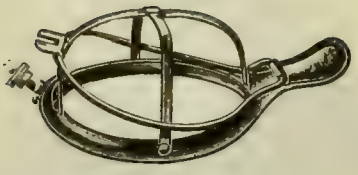
†G66 Spare Rubber Headband .. .. each

**Not illustrated*

†*Also available in anti-static rubber*

GENERAL OPERATION INSTRUMENTS

ANÆSTHETIC ACCESSORIES



G67



G70

Cat. No.

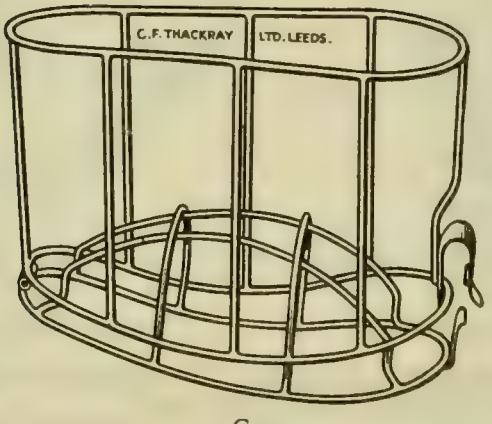
G67 CHADBORN-SCHIMMELBUSCH'S INHALER, adults' size, chromium plated, each

G68 Ditto .. children's size .. .. each

G69 Ditto .. infants' size .. .. each

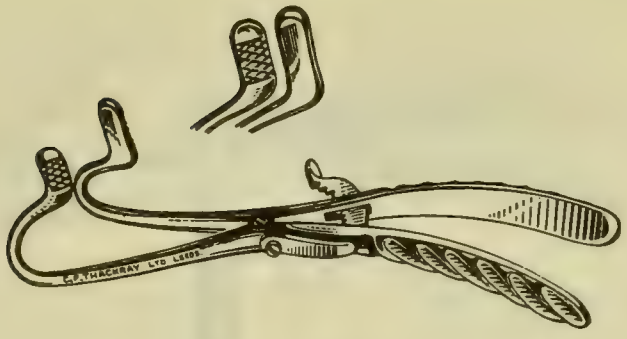
G70 YANKAUER'S INHALER, adults' size, with wire gauze frame, chromium plated, each

G71 Ditto .. children's size .. .. each



G72

G72 OGSTON'S INHALER, chromium plated .. .. each



G73

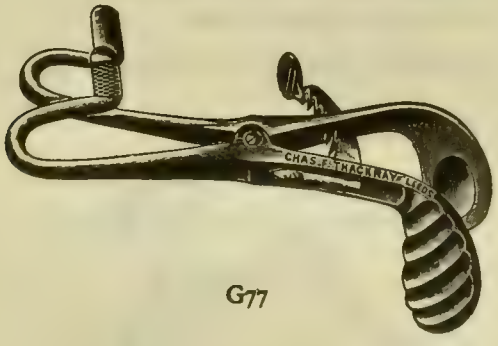
Cat. No.

G73 ACKLAND'S MOUTH GAG, with *parallel* jaws, adults' size, stainless steel, each

G74 Ditto .. children's size .. .. each

*G75 ACKLAND'S MOUTH GAG, with *ordinary* jaws, adults' size, stainless steel, each

G76 Ditto .. children's size .. .. each



G77

G77 BUXTON'S MOUTH GAG, with *ordinary* jaws, adults' size, stainless steel, each

G78 Ditto .. children's size .. .. each

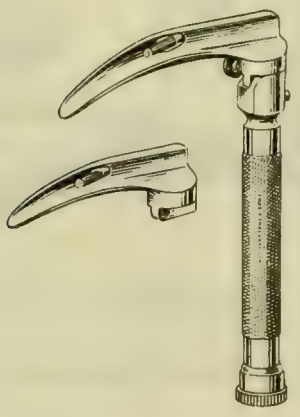
*G79 BUXTON'S MOUTH GAG, with *parallel* jaws, adults' size, stainless steel, each

G80 Ditto .. children's size .. .. each

**Not illustrated*

GENERAL OPERATION INSTRUMENTS

ANÆSTHETIC ACCESSORIES



10–6045

Cat. No.

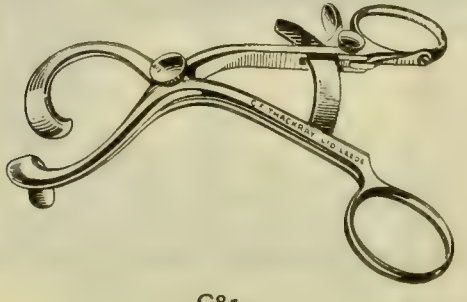
10–6045 SRIVASTAVA'S LARYNGOSCOPE, for infants and children, with two stainless steel interchangeable blades ; infants' size 6.5 cm. and children's size 8 cm., fitting small chromium plated handle, complete with battery and lamp, 2.5 volts

10–6046 Blade only, infants' size, stainless steel

10–6047 Blade only, children's size, stainless steel

10–6048 Handle only, small size, chromium plated

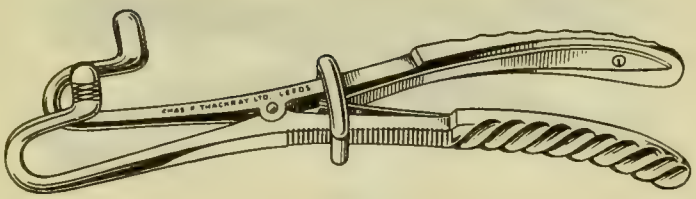
Vide " Anaesthesia," Vol. 18, No. 4, October, 1963.



G85

G85 DOYEN'S MOUTH GAG, with cam ratchet, adults' size, stainless steel, each

G86 Ditto .. children's size .. .. each



G87

Cat. No.

G87 FERGUSSON'S MOUTH GAG, with *ordinary* jaws, adults' size, stainless steel, each

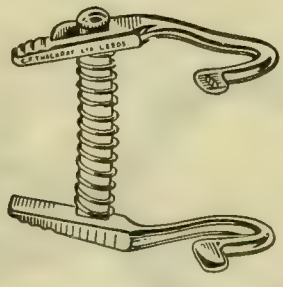
G88 Ditto .. children's size .. .. each

G89 Ditto .. infants' size, as used at The Hospital For Sick Children, Gt. Ormond St., London .. .. each

G90 FERGUSSON'S MOUTH GAG, with *parallel* jaws, adults' size, stainless steel, each

G91 Ditto .. children's size .. .. each

G92 Ditto .. infants' size, as used at The Hospital for Sick Children, Gt. Ormond St., London .. .. each



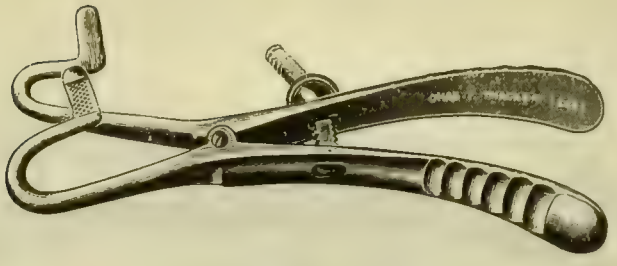
G93

G93 LANE'S MOUTH GAG, for cleft palate, three sizes: small, medium and large, stainless steel .. .. each

**Not illustrated*

GENERAL OPERATION INSTRUMENTS

ANÆSTHETIC ACCESSORIES



G94

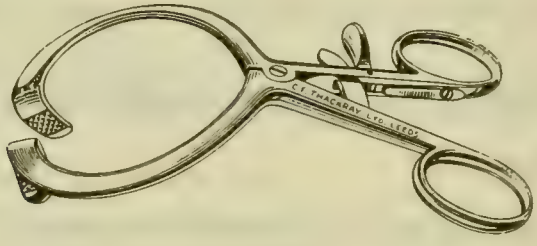
Cat. No.

G94 MASON'S MOUTH GAG, with *ordinary* jaws, adults' size, stainless steel, each

G95 Ditto .. children's size .. .. each

*G96 MASON'S MOUTH GAG, with *parallel* jaws, adults' size, stainless steel, each

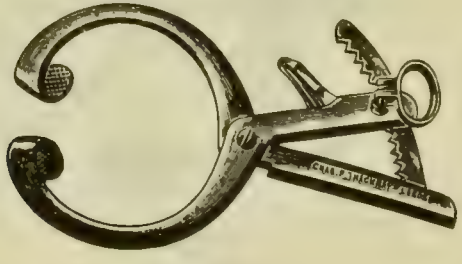
G97 Ditto .. children's size .. .. each



G98

G98 SYDENHAM'S MOUTH GAG, with cam ratchet and bow handles, adults' size, stainless steel .. .. each

G99 Ditto .. children's size .. .. each

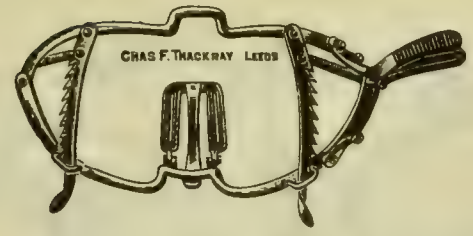


G100

G100 SYDENHAM'S MOUTH GAG, original pattern, adults' size, stainless steel, each

G101 Ditto .. children's size .. .. each

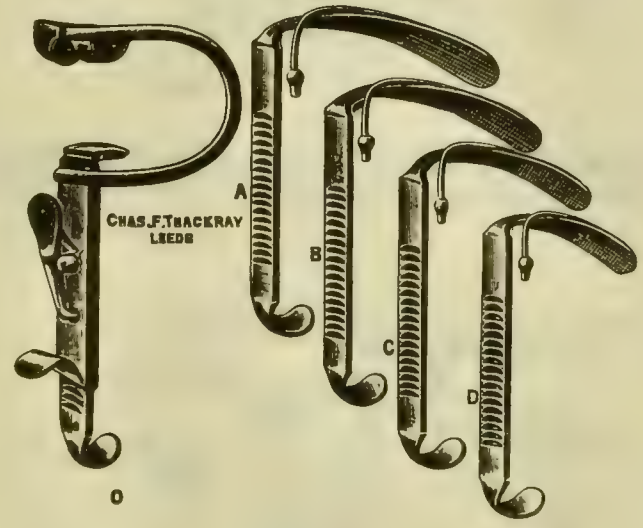
**Not illustrated*



G102

Cat. No.

G102 WHITEHEAD'S CLEFT PALATE MOUTH GAG, stainless steel .. each



G103

†G103 DAVIS-BOYLE'S MOUTH GAG, complete with edentulous plate and four sizes of tongue blades with anæsthetic tubes, stainless steel .. .. .. each

G104 Frame only .. .. each

G105 Edentulous plate .. O .. .. each

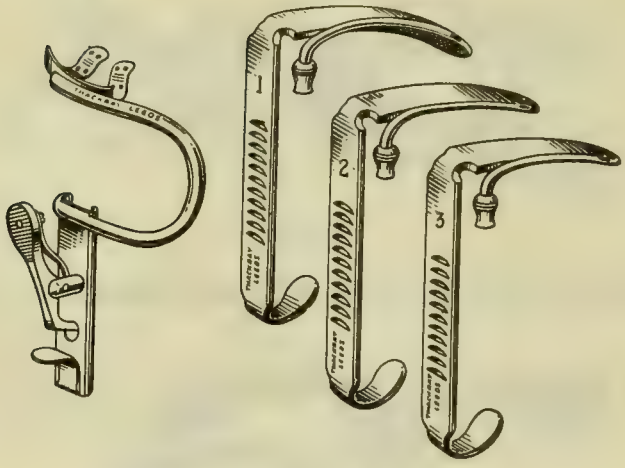
†G106 Tongue Blade .. A .. .. each

†G107 Ditto .. .. B .. .. each

†G108 Ditto .. .. C .. .. each

†G109 Ditto .. .. D .. .. each

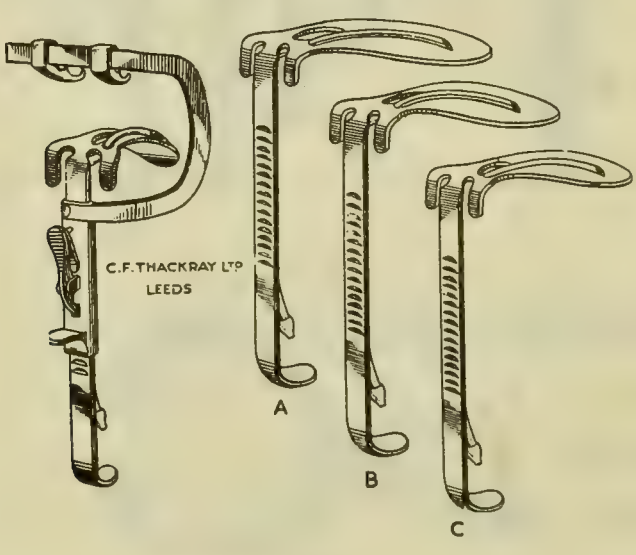
†*Anæsthetic tubes are fixed to sides of blades*



G110

Cat No.

G110 DAVIS-BOYLE'S MOUTH GAG, FOR CHILDREN, complete with three sizes of tongue blades with anæsthetic tubes, stainless steel .. .. .. each

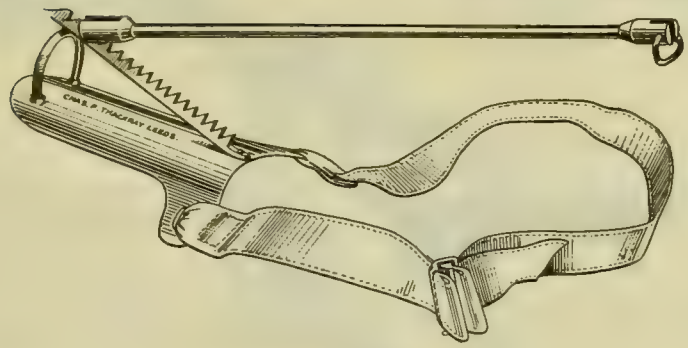


G111

*G111 DOTT'S MOUTH GAG, KILNER'S modification, complete with three sizes of tongue blades with anæsthetic tubes, stainless steel .. .. .. each

*G112 Ditto .. without anæsthetic tubes .. .. each

**See also Page P592*



G113

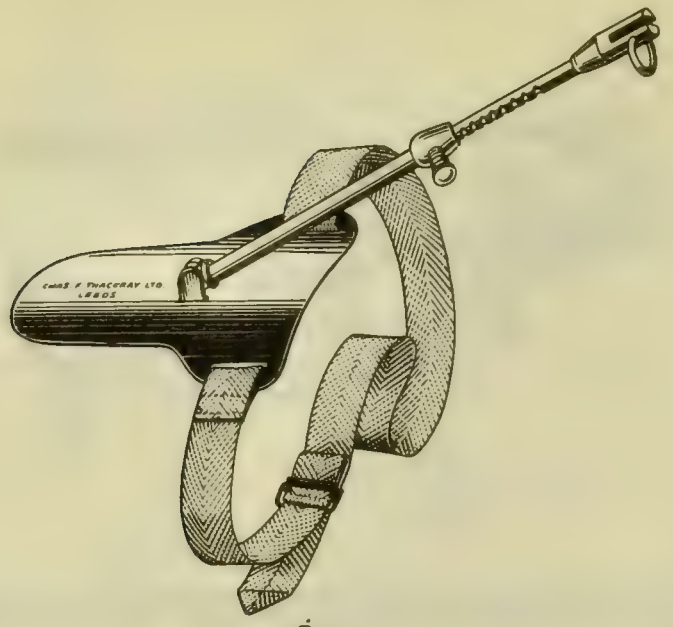
Cat. No.

G113 GUY'S HOSPITAL PATTERN JACK AND BREASTPLATE, for Davis-Boyle's type mouth gags, chromium plated, with webbing straps .. .. each



G114

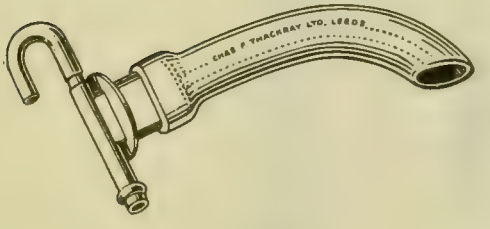
G114 NEGUS' JACK AND BREASTPLATE, for Davis-Boyle's type mouth gags, chromium plated .. .. each



G115

Cat. No.

G115 UNIVERSITY COLLEGE HOSPITAL PATTERN JACK AND BREAST-PLATE for Davis-Boyle's type mouth gags, chromium plated, with webbing strap, each



G116



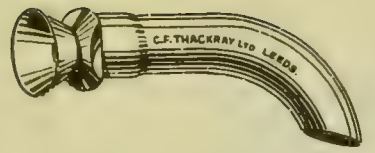
G118

†G116 CLAUSEN'S AIRWAY, with rubber tube and chromium plated mount, four sizes : miniature, small, medium and large .. .. each

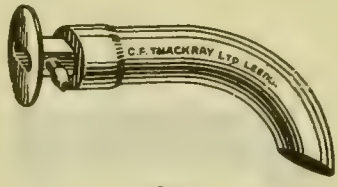
†G117 Spare Airway Rubbers, four sizes .. .. each

†G118 GUEDEL TYPE AIRWAY, moulded rubber, with chromium plated insert, four sizes : miniature, small, medium and large .. .. each

†*Available in anti-static rubber on request*



G119



G121

Cat. No.

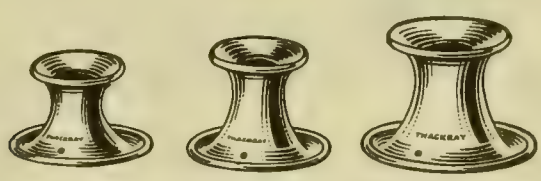
†G119 HEWITT'S AIRWAY, with rubber tube and aluminium mount, four sizes: miniature, small, medium and large .. .. each

†G120 Spare Airway Rubbers, four sizes .. .. each

†G121 HIRSCH'S AIRWAY, with rubber tube and chromium plated mount, four sizes: miniature, small, medium and large .. .. each

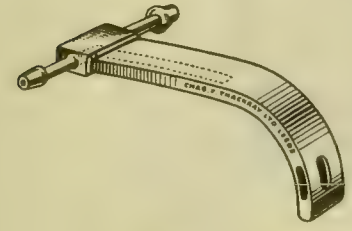
†G122 Spare Airway Rubbers, four sizes .. .. each

†*Available in anti-static rubber on request*

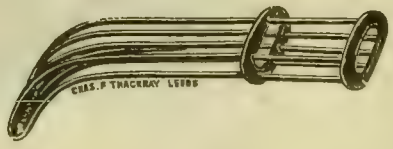


G123

G123 LONDON HOSPITAL PATTERN AIRWAY-PROP, aluminium, three sizes: small, medium and large .. .. each



G124



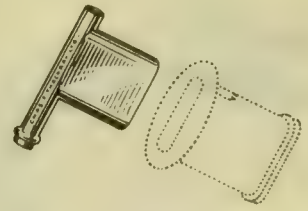
G125

G124 ROSS MACKENZIE'S AIRWAY, all metal, chromium plated, three sizes: small, medium and large .. .. each

G125 MAYO'S AIRWAY, all metal, chromium plated, two sizes: small and large, each



G126



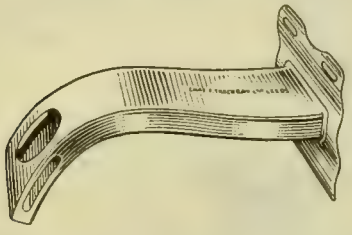
G128

Cat. No.

†G126 PHILLIPS' AIRWAY, with rubber tube and chromium plated mount, four sizes : miniature, small, medium and large .. .. each

†G127 Spare Airway Rubbers, four sizes : .. .. each

G128 CLAYTON'S ATTACHMENT, to fit Phillips' and Hirsch's airways, chromium plated, four sizes : miniature, small, medium and large .. .. each



G129



G131

G129 MONA ROBERTS' AIRWAY, all metal, chromium plated, two sizes: small and large .. .. each

*G130 Ditto .. with anæsthetic tube .. .. each

G131 WATERS' AIRWAY, all metal, chromium plated, four sizes : miniature, small, medium and large .. .. each

*G132 Ditto .. with anæsthetic tube .. .. each



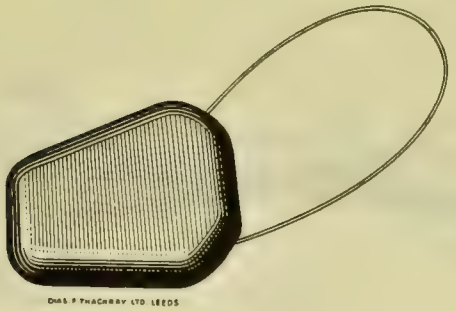
G 133

G133 MOUTH WEDGE AND PROP, boxwood, two sizes : small and large .. each

G134 Ditto .. mouth wedge only, small and large .. .. .. each

**Not illustrated*

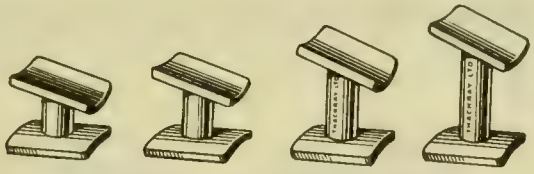
†Available in anti-static rubber on request



G136

Cat. No.

G136 MOUTH WEDGE, vulcanite, covered with canvas and rubber, one size, each



G137

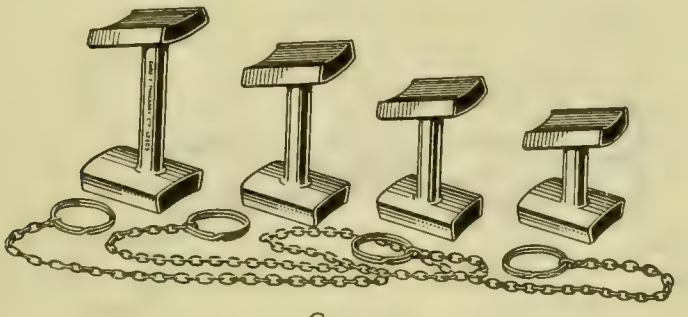
G137 HEWITT'S MOUTH PROPS, aluminium, lead lined, four sizes: miniature, small, medium and large .. .. each

*G138 Ditto .. set of four with connecting chains .. .. .. per set

*G139 HEWITT'S MOUTH PROPS, aluminium, with rubber pads, four sizes: miniature, small, medium and large .. .. each

G140 Ditto .. set of four with connecting chains .. .. .. per set

G141 Spare Rubber Pads .. .. each



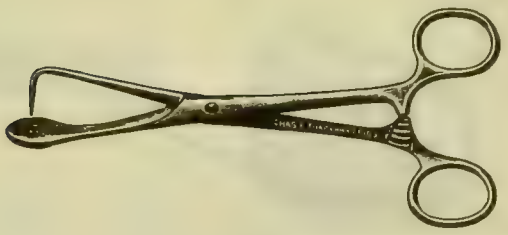
G142–143

G142 MUSHIN'S MOUTH PROPS, chromium plated, with rubber inserts, four sizes: miniature, small, medium and large .. .. each

G143 Ditto .. set of four with connecting chains .. .. .. per set

G144 Spare Rubber Inserts .. .. each

**Not illustrated*



G145

Cat. No.

G145 CARMALT'S TONGUE FORCEPS, screw joint, 5 in., stainless steel, each



G146

G146 CORBOULD'S TONGUE FORCEPS, screw joint, 5 in., stainless steel, each



G147

G147 GUY'S TONGUE FORCEPS, screw joint, 7 in., stainless steel .. each

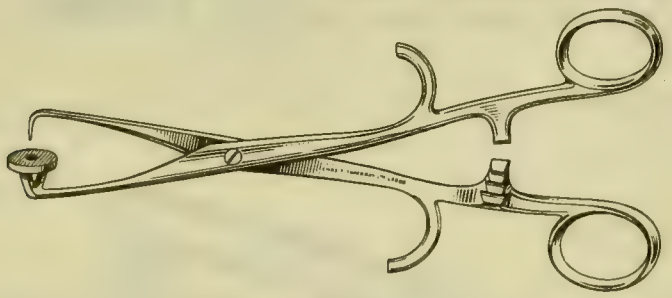
G148 Ditto .. 5 in. .. .. each



G149

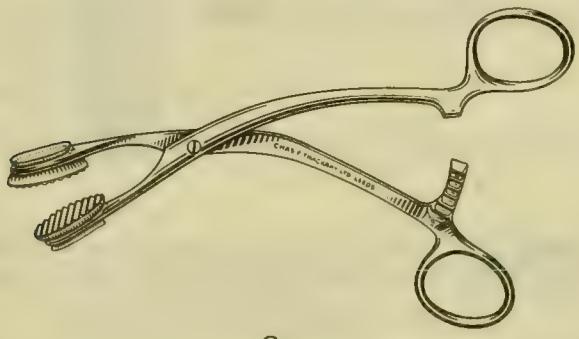
Cat. No.

G149 MAYO'S TONGUE FORCEPS, box joint, 6 in., stainless steel .. each



G150

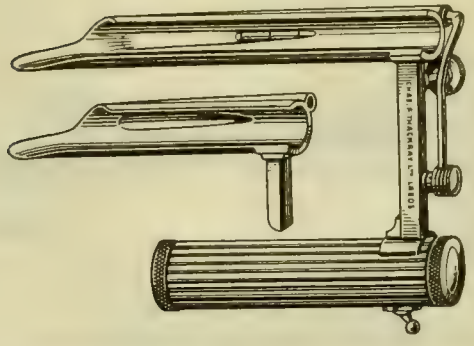
G150 THOMPSON'S TONGUE FORCEPS, screw joint, 7¼ in., stainless steel each



G151

G151 YOUNG'S TONGUE FORCEPS, screw joint, 5 in., stainless steel, with rubber pads on jaws .. .. each

G152 Spare Rubber Pads .. .. each

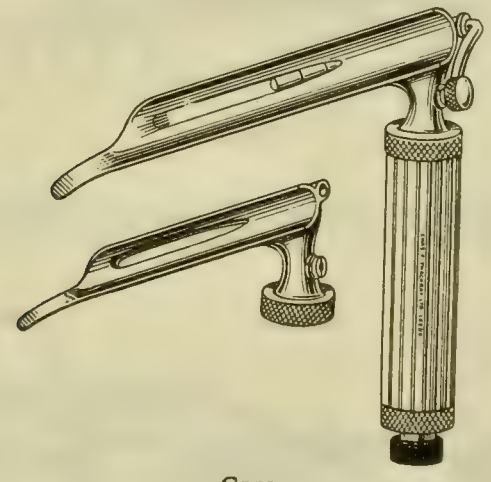


G153

Cat. No.

†G153 MAGILL'S LARYNGOSCOPE, with two stainless steel interchangeable blades: adults' and children's, fitting chromium plated handle, complete with battery and lamp, 2·5 volts .. .. each

†G154 Spare Lamps for above, 2·5 volts .. .. each



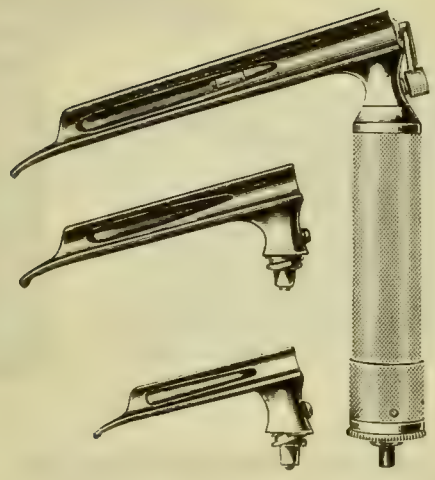
G155

†G155 MAGILL-GUEDEL'S LARYNGOSCOPE, with two stainless steel interchangeable blades: adults' and children's, fitting chromium plated handle, complete with battery and lamp, 2·5 volts .. .. each

†G156 Spare Lamps for above, 2·5 volts .. .. each

†Lamp bulbs are new IMPROVED PATTERN with KNURLED CASINGS to facilitate removal and replacement.

NOTE.—Spare Batteries for Fig. Nos. G153 and G155 can be supplied on request.



G157



G159A

Illustration Shows Blade only. Battery Handle is the same as G157

Cat. No.

†G157 RAE'S LARYNGOSCOPE, with three stainless steel interchangeable modified *Magill* type blades: adults', children's and infants', fitting chromium plated handle, complete with battery and lamp .. .. per set

†G157A Blades only, modified *Magill* type, three sizes .. .. .. each

†G159A RAE'S LARYNGOSCOPE, with three chromium plated interchangeable *Macintosh* type blades: adults', children's and infants', fitting chromium plated handle, complete with battery and lamp .. .. per set

†G159B Blades only, modified *Macintosh* type, three sizes .. .. .. each

*G160 PLASTIC POUCH with zip-fastener, to take one laryngoscope handle and three blades .. .. each

G161 Spare Lamps for above, 2·5 volts .. .. each

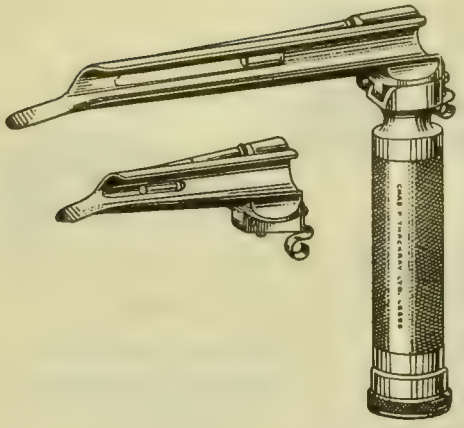
The Rae Laryngoscope has certain new features fully described in an illustrative leaflet which we should be pleased to send on request.

Vide " *B.M.J.*", *July* 14*th.* 1951. *Page* 115.

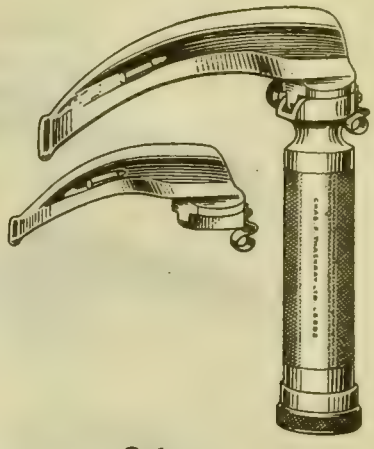
†*All blades have fixed lamp stems. Lamp bulbs are new IMPROVED PATTERN with KNURLED CASINGS to facilitate removal and replacement.*

NOTE.—Spare Batteries for Fig. Nos. G157 and G159A can be supplied on request.

**Not illustrated*



G162



G163

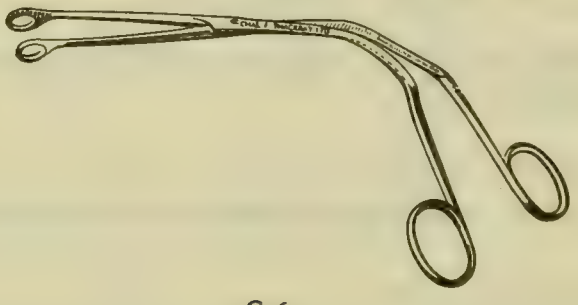
Cat. No.

†G162 FOLDING TYPE LARYNGOSCOPE, with three stainless steel *Magill* type blades: adults', children's and infants', fitting chromium plated handle, complete with battery and lamps .. .. set

†G163 Ditto .. but with three chromium plated *Macintosh* type blades: adults', children's and infants', complete with battery and lamps .. .. .. set

G163A PLASTIC POUCH, with zip fastener, to take one battery handle and three blades, each

G164 Spare Lamps for above, 2·5 volts .. .. each



G165

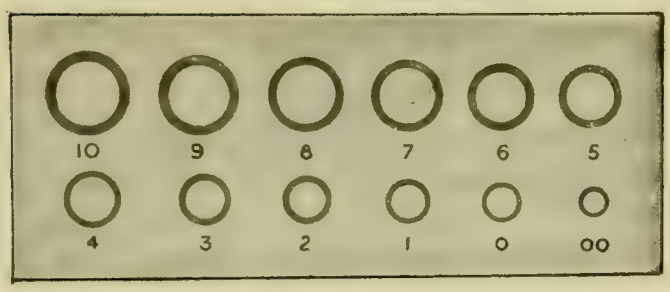
G165 MAGILL'S INTRODUCING FORCEPS, for endotracheal tubes, screw joint, stainless steel .. .. each

G165A Ditto .. small size .. .. each

†"*Lock-folding*" *pattern. Lamp bulbs are new IMPROVED PATTERN with KNURLED CASINGS to facilitate removal and replacement. Handles and blades can be purchased separately.*

NOTE.—Spare Batteries for Fig. Nos. G162 and G163 can be supplied on request.

MAGILL'S TUBES



These sizes conform to the following French Catheter Gauges:

M	10	9	8	7	6	5	4	3	2	1	0	00
F.C.G.	34	33	31	30	28	27	25	24	23	20	18	14



G166

Cat. No.

G166 MAGILL'S ENDOTRACHEAL TUBES, oral, rubber, twelve sizes: 00 to 10, each

G167 Ditto .. nasal, with thin walls, seven sizes: 2 to 8 .. .. .. each

G168 Ditto .. oral, vinyl plastic, internal diameters from 2·5 mm. to 11·5 mm. each



G169

G169 MAGILL'S ENDOTRACHEAL TUBES, with Woodfield-Davies's modification of a coiled-spring embedded in the Latex rubber material, twelve sizes: 00 to 10, each



G170

Cat. No.

G170 MAGILL'S ENDOTRACHEAL TUBES, with Woodfield-Davies' flange, rubber, twelve sizes : 00 to 10 .. .. each

*G171 Ditto .. short pattern, for naso-pharyngeal route, five sizes : 4 to 8 .. each



G172

G172 MAGILL'S ENDOTRACHEAL TUBES, with inflatable cuff, rubber, eight sizes : 3 to 10 .. .. each



G173

G173 BOURNE'S MOUTH TUBES, flexible metal, for endotracheal tubes sizes 6 and 8 .. .. each

G174 Ditto .. for endotracheal tubes sizes 8, 9 and 10 .. .. .. each

**Not illustrated*



G175

Cat. No.

G175 MAGILL'S ENDOTRACHEAL TUBES, with metal feed tube and coiled-spring armoured rubber tube, six sizes : 00 to 4 .. .. each

G175A STILETTE, stainless steel, for above .. .. each

For use in cleft palate operations on infants



G176

G176 MAGILL'S ENDOTRACHEAL TUBES, with metal connection and coiled-spring armoured rubber tube, six sizes : 5 to 10 .. .. each



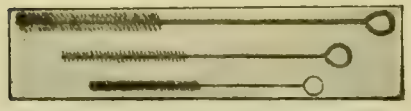
G177–178

G177 MAGILL'S CONNECTIONS, oral, for endotracheal tubes, chromium plated, six sizes : 1 to 6 .. .. each

G178 Ditto .. nasal, six sizes : 7 to 12 .. .. each

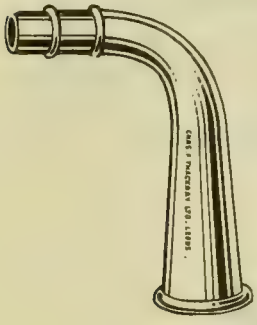
*G179 Ditto .. oral and nasal, set of twelve, in chromium plated case .. per set

**Not illustrated*

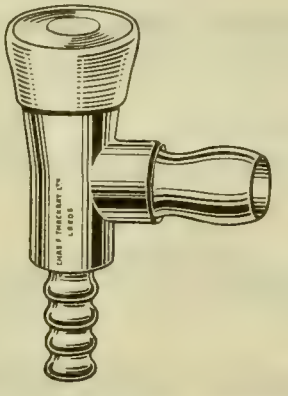


G180

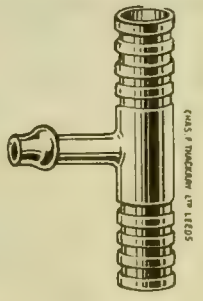
Cat No.
G180 CLEANING BRUSHES, for endotracheal tubes, set of three .. per set



G181



G182

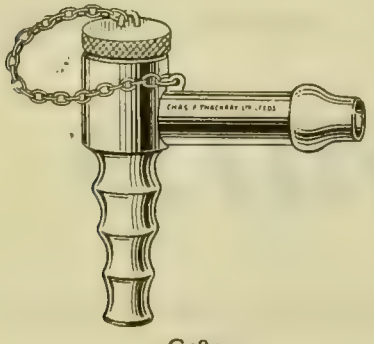


G183

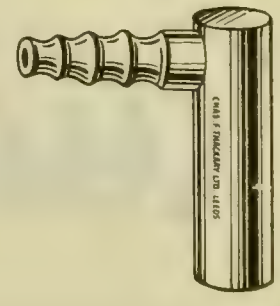
G181 MAGILL'S CONNECTIONS, for oral or nasal intubation, chromium plated, four sizes: $\frac{3}{8}$ in., $\frac{5}{16}$ in., $\frac{1}{4}$ in. and $\frac{3}{16}$ in. bore .. .. each

G182 MAGILL'S CONNECTIONS, suction T-piece, funnel end, chromium plated, with rubber cap, four sizes: $\frac{3}{8}$ in., $\frac{5}{16}$ in., $\frac{1}{4}$ in. and $\frac{3}{16}$ in. bore .. .. each

G183 AYRE'S CONNECTIONS, T-piece, chromium plated, three sizes: 1, 2 and 3, each



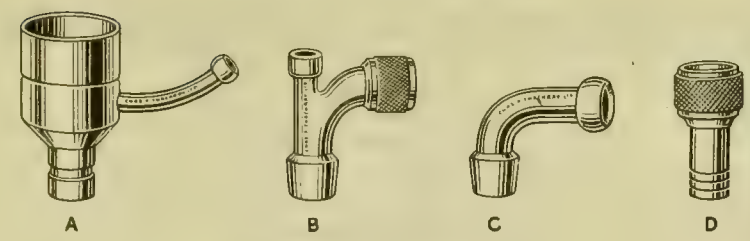
G184



G185

G184 COBB'S SUCTION UNIONS, with metal plug and chain, chromium plated, four sizes: 1, 2, 3 and 4 .. .. each

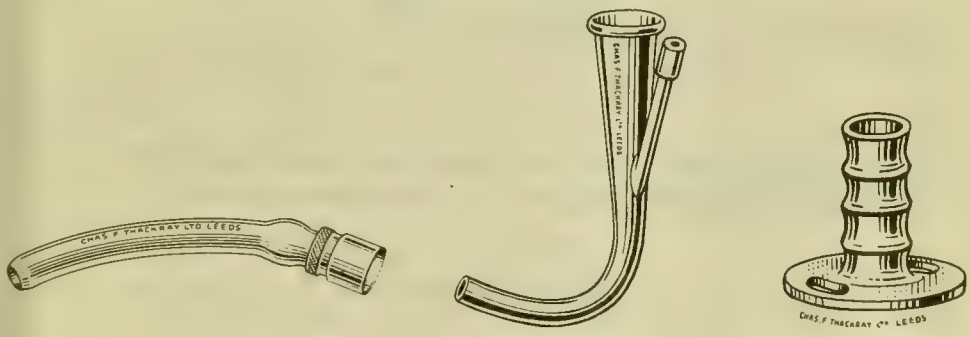
G185 ROWBOTHAM'S CONNECTIONS, chromium plated, four sizes: 1, 2, 3 and 4, each



G186

Cat. No.

G186 NOSWORTHY'S CONNECTIONS, chromium plated, set of seven, comprising: one of each types A, B and C, and four of type D .. .. .. per set

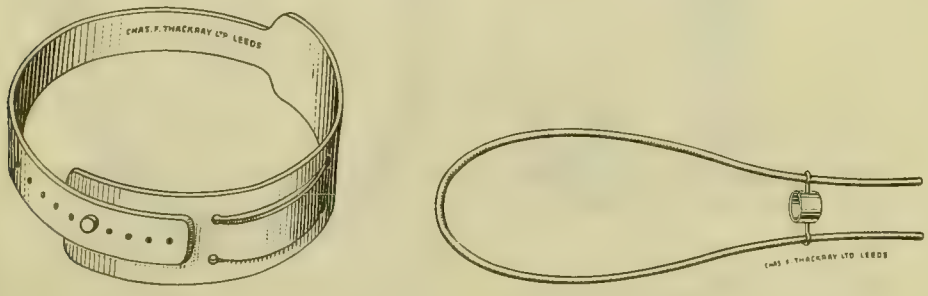


G187 G188 G189

G187 ENDOTRACHEAL CATHETER MOUNT, Magill fitting, with rubber connecting tube .. .. each

G188 ENDOTRACHEAL UNION, with side feed tube, chromium plated, two sizes: 1 and 2 .. .. each

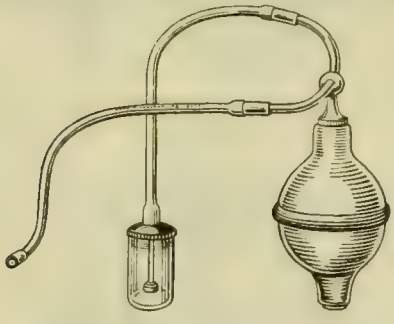
G189 GORDON'S ENDOTRACHEAL FLANGE, chromium plated, four sizes: 1, 2, 3 and 4 .. .. each



G190 G191

G190 HUDSON'S HEAD HARNESS, with slotted anti-static rubber strap to hold endotracheal assembly .. .. each

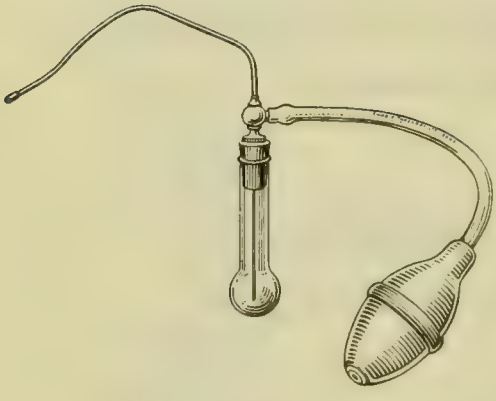
G191 ROWBOTHAM'S HEAD HARNESS, with rubber cord and chromium plated ring .. .. each



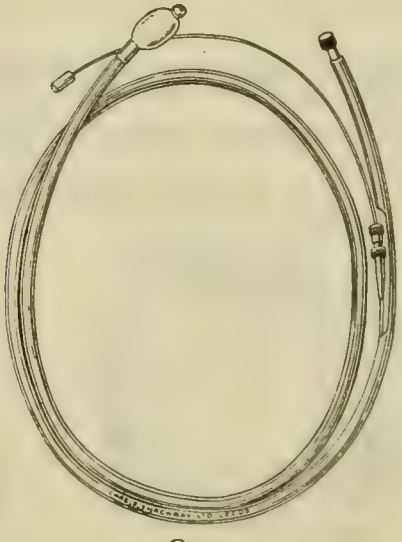
G192

Cat. No.

G192 MACINTOSH'S COCAINE SPRAY, two patterns: nasal (without malleable wire insert) and oral (with wire insert) .. .. each



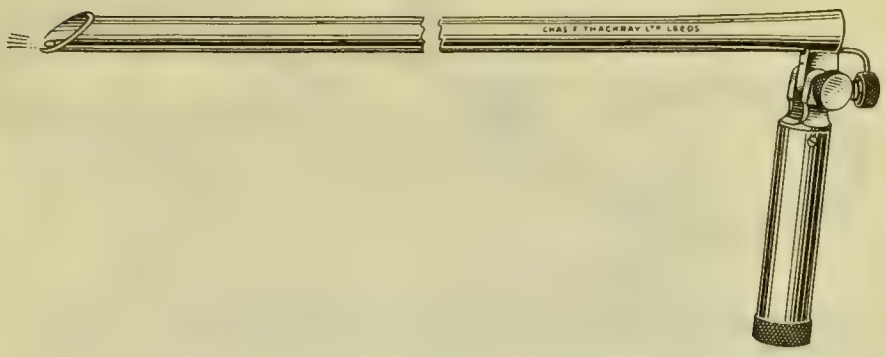
G194



G195

G194 ROWBOTHAM'S COCAINE SPRAY .. .. each

G195 MAGILL'S BRONCHIAL OCCLUDER, consisting of: stainless steel stilette and rubber tube with inflatable balloon at end .. .. .. each



G196

Cat. No.

G196 MAGILL'S EMERGENCY BRONCHOSCOPE, with chromium plated shaft, satin finish: 40 cm. long, 11 mm. external diameter detachable light carrier and chromium plated folding handle, complete with battery and lamp, 2·5 volts .. each

G197 Ditto .. 37·5 cm. long: 8 mm. external diameter .. .. .. each

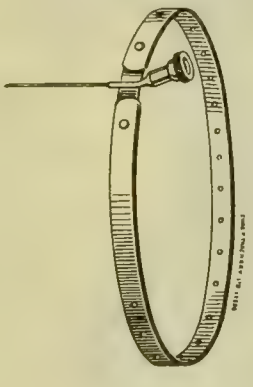
G197A Ditto .. 35 cm. long: 5 mm. external diameter .. .. .. each

G198 Spare Lamps for above, 2·5 volts .. .. each

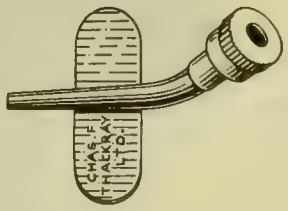


G199

G199 ENDOBRONCHIAL SUCTION CATHETER, gum-elastic, 25 in. long, three sizes: 12, 14 and 16 F.C.G. .. .. each



G200



G203

G200 GORDH'S INTRAVENOUS NEEDLE, for repeated injections of anæsthetic drugs, stainless steel shaft: 20 B.W.G. by 1⅛ in. long, winged mount fitted with rubber diaphragm, and rubber armband .. .. each

G201 Spare Rubber Armbands .. .. each

G202 Spare Rubber Diaphragms for G200 .. .. dozen

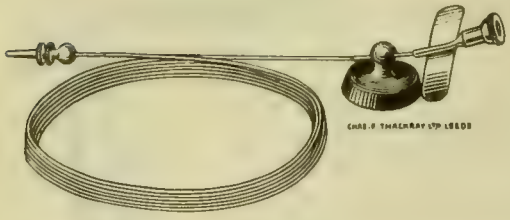
G203 FORRESTER'S ADAPTER, consisting of: modified Gordh's wing-plate and diaphragm with Record fitting mount .. .. each

G203A Spare Rubber Diaphragms for G203 .. .. dozen

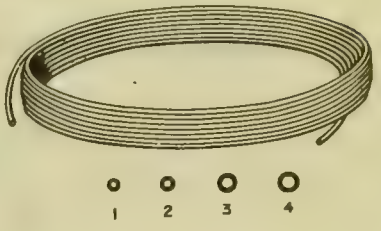
This adapter allows a needle size of choice to be used, especially the smaller sizes for children; the winged mount is secured by adhesive tape. If remote control is desired, the adapter can be used with the appropriate mounts, needle and length of Polythene tubing.

Vide "*B.M.J.*", *June 11th*, 1949. Page 1007.

ANÆSTHETIC ACCESSORIES



G204

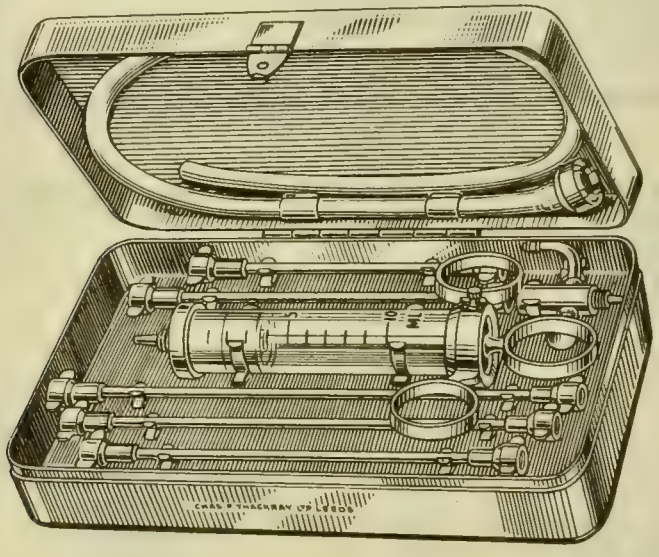


G205

Cat. No.

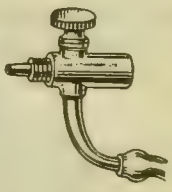
G204 SCURR'S INTRAVENOUS OUTFIT, for remote control, consisting of : Gordh's type mount fitted to rubber sucker, length of Polythene tubing and Record fitting needle mount .. .. each

G205 POLYTHENE TUBING, four sizes: 0·5 mm., 1·0 mm., 1·5 mm. and 2·0 mm. bore, supplied in coils of 5 yards .. .. per 5 yards



Syringe capacity 5 ml. as shown in text

G206



G213

G206 DUNN'S ANÆSTHETIC SYRINGE, for spinal and regional anæsthesia, consisting of: 5 ml. screw-nozzle syringe, ten stainless steel assorted needles, two stainless steel spinal needles, continuous-flow valve, metal sinker and rubber tubing, in nickel plated case .. .. each

G207 Spare Needles, sizes: 23 B.W.G. by $\frac{13}{16}$ in. long (·6 by 20 mm.) .. each

G208 Ditto .. .. 22 B.W.G. by 2 in. long (·7 by 50 mm.) .. each

G209 Ditto .. .. 21 B.W.G. by $3\frac{1}{8}$ in. long (·8 by 80 mm.) .. each

G210 Ditto .. .. 20 B.W.G. by 4 in. long (·9 by 100 mm.) .. each

G211 Ditto .. .. 19 B.W.G. by $4\frac{3}{4}$ in. long (1·0 by 120 mm.) .. each

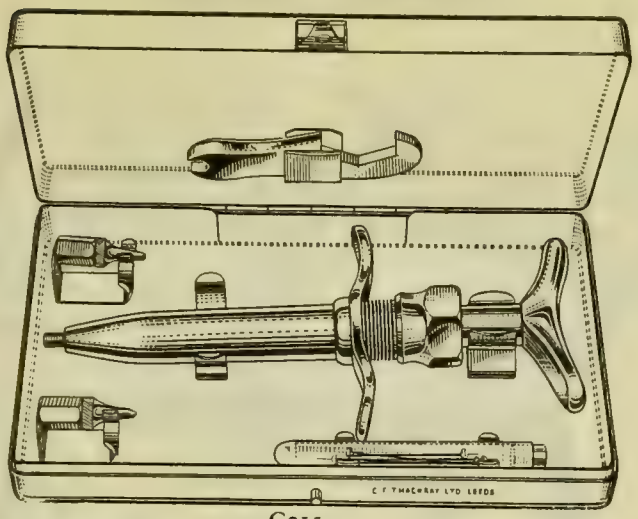
G212 Spinal Needles, size: 19 B.W.G. by $3\frac{1}{8}$ in. long (1·0 by 80 mm.) .. each

†G213 DUNN'S VALVE, continuous flow, with metal sinker and rubber tubing, screw fitting .. .. each

G214 Ditto .. Record fitting .. .. each

†Special fittings can be made to order

ANÆSTHETIC ACCESSORIES

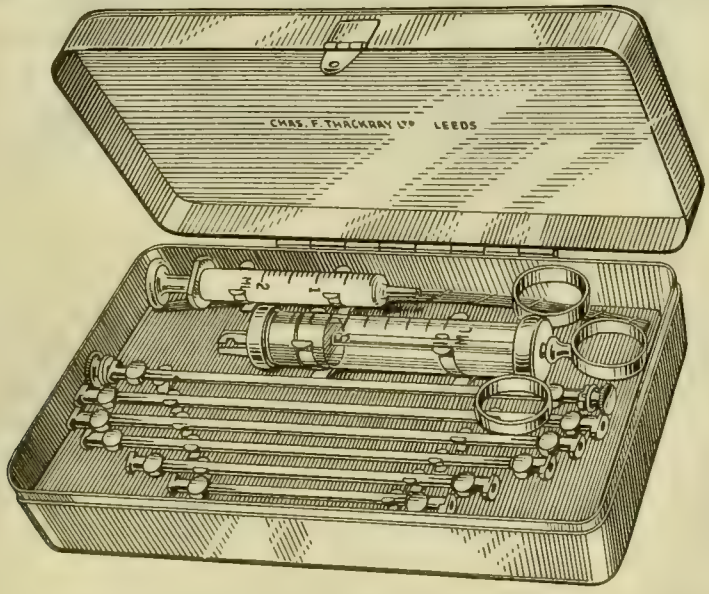


G215

Cat. No.

G215 GILLIES' ANÆSTHETIC SYRINGE, for local anæsthesia, consisting of: 60 min. all metal syringe, two adapters, tube of six Schimmel's needles and spanner, in chromium plated case .. .. each

G216 Spare Schimmel's Needles, .45 mm. by 45 mm. in tubes of six needles, per tube



G217

G217 LABAT'S ANÆSTHETIC SYRINGE, for spinal and regional anæsthesia, consisting of: 10 ml. bayonet-Record fitting side nozzle syringe, 2 ml. Record fitting all glass syringe, ten stainless steel assorted needles, and two stainless steel spinal needles, in nickel plated case .. .. each

G218 Spare Needles, sizes: 23 B.W.G. by $\frac{13}{16}$ in. long (·6 by 20 mm.) .. each

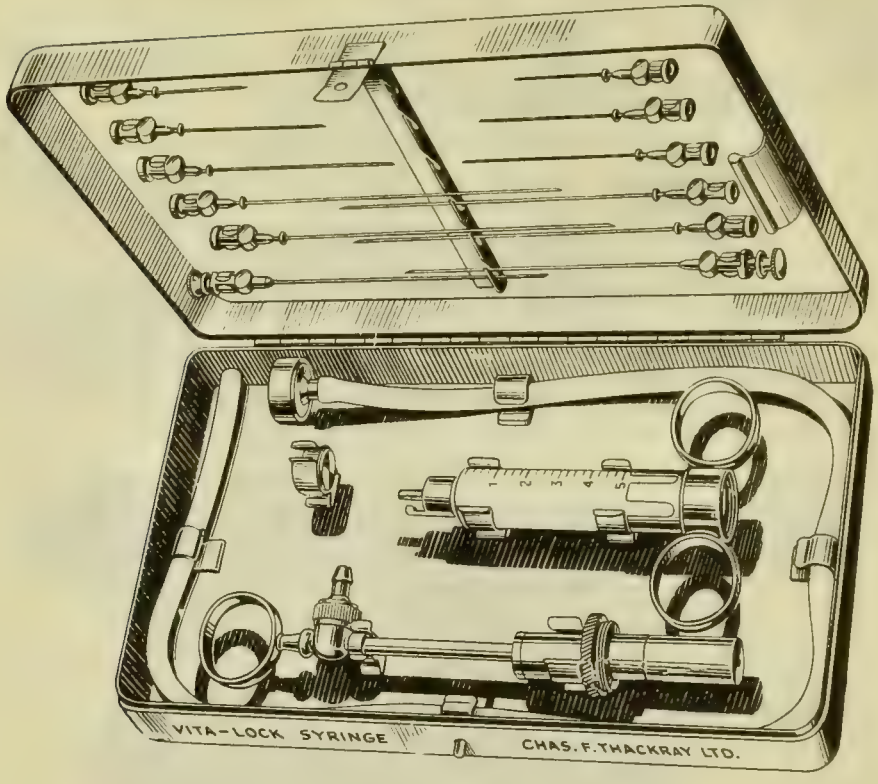
G219 Ditto .. .. 22 B.W.G. by 2 in. long (·7 by 50 mm.) .. each

G220 Ditto .. .. 21 B.W.G. by $3\frac{1}{8}$ in. long (·8 by 80 mm.) .. each

G221 Ditto .. .. 20 B.W.G. by 4 in. long (·9 by 100 mm.) .. each

G222 Ditto .. .. 19 B.W.G. by $4\frac{3}{4}$ in. long (1·0 by 120 mm.) .. each

G223 Spinal Needles, size: 19 B.W.G. by $3\frac{1}{8}$ in. long (1·0 by 80 mm.) .. each



G224

Cat. No.

G224 VITA-LOCK PITKIN'S SYRINGE, for local and spinal anæsthesia, consisting of: 5 ml. syringe with metal Luer-locking, needle-lock nozzle and finger rings; range of ten stainless steel needles and two Pitkin's spinal needles; rubber tubing, metal sinker and sealing plug; contained in chromium plated case fitted with lift-out rack .. .. complete

The piston of this syringe has a hollow centre tube through which solutions are introduced in a continuous flow by means of the spring-return piston rod. A sealing plug is provided for when the self-filling device is not required. A metal bead is fitted to the shaft of each needle as a safety measure to prevent the needle—in the event of breakage—from being lost in the tissues and to facilitate easy removal.

G225 Spare Needles, with safety bead, size 25 B.W.G. by $\frac{15}{16}$ in. long (·5 by 23 mm.) .. each

G226 Ditto .. .. size 22 B.W.G. by $1\frac{1}{2}$ in. long (·7 by 40 mm.) .. each

G227 Ditto .. .. size 22 B.W.G. by 2 in. long (·7 by 50 mm.) .. each

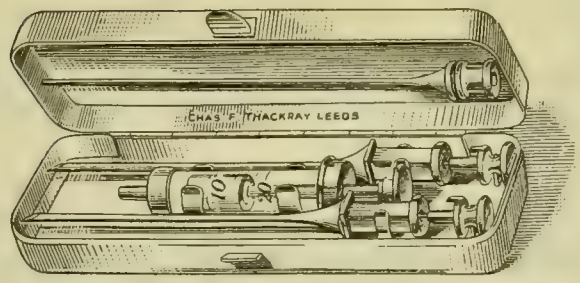
G228 Ditto .. .. size 22 B.W.G. by $3\frac{1}{4}$ in. long (·7 by 80 mm.) .. each

G229 Ditto .. .. size 20 B.W.G. by $4\frac{1}{8}$ in. long (·9 by 105 mm.) each

G230 Pitkin's Spinal Needles, size 22 B.W.G. by 3 in. long (·7 by 75 mm.) .. each

G231 Ditto .. .. size 20 B.W.G. by $3\frac{1}{2}$ in. long (·9 by 90 mm.) .. each

NOTE.—Luer-locking nozzle supersedes that illustrated



G232

Cat. No.

G232 BARKER'S ANÆSTHETIC SYRINGE, for spinal anæsthesia, consisting of: 2 ml. Record syringe, two stainless steel spinal needles and one cannula, in chromium plated case .. .. each

G233 Spare Needles, size: 18 B.W.G. by 3¼ in. long .. .. .. each



G234

G234 BARKER'S SPINAL NEEDLE, stainless steel shaft, four gauges: 17, 18, 19 and 20 B.W.G., 3¼ in. long, †Record fitting mount, complete with stilette .. each



G235

G235 WILFRED HARRIS' SPINAL NEEDLE, stainless steel shaft: 20 B.W.G. by 3 in. long, †Record fitting serrated mount, complete with stilette .. .. each

†*Also available with Luer fitting mount*



G236

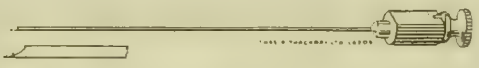
Cat. No.

G236 HOWARD JONES' SPINAL NEEDLES, stainless steel shaft, five gauges: 18, 19, 20, 21 and 22 B.W.G., 3 in. long, †Record fitting mount, complete with stilette, each

G237 Ditto .. five gauges, 3½ in. long† .. .. each

G238 Ditto .. five gauges, 4 in. long† .. .. each

G239 Ditto .. children's size, 21 B.W.G. by 2 in. long† .. .. .. each



G240

G240 PANNETT'S SPINAL NEEDLE, stainless steel shaft: 20 B.W.G. by 3 in. long, †Record fitting serrated mount, complete with stilette .. .. .. each

G241 Ditto .. 20 B.W.G. by 3½ in. long† .. .. each



G242

G242 PITKIN'S SPINAL NEEDLE, stainless steel shaft, three gauges: 20, 21 and 22 B.W.G., 3 in. long, †Record fitting mount, complete with stilette .. each

G243 Ditto .. three gauges, 3½ in. long† .. .. each

G244 Ditto .. three gauges, 4 in. long† .. .. each

The point of this needle is bevelled at 45 degrees and specially designed to cut a miniature "trapdoor" in the dura; when the needle is withdrawn the "trapdoor" closes

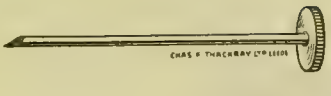


G245

G245 VIENNA PATTERN OR DATTNER'S SPINAL NEEDLE, consisting of: stainless steel inner needle, 24 B.W.G. by 4¼ in. long, complete with stilette, stainless steel outer needle, 19 B.W.G. by 2¾ in. long, and Record mount with milled-head fixing screw .. .. each

For primary introduction the bevels of the two needles are aligned as one and fixed by the screw. When the instrument has been inserted to the required depth, the fine inner needle is pushed farther to puncture the dura.

†Also available with Luer fitting mount



G246



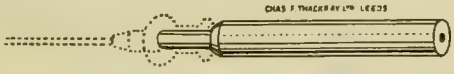
G247

Cat. No.

†G246 SISE'S INTRODUCER, for spinal needles, stainless steel shaft: 17 B.W.G. by 1¾ in. long with serrated mount .. .. each

†G247 ROWBOTHAM'S INTRODUCER, for spinal needles, stainless steel shaft: 17 B.W.G. by ⅞ in. long with small chuck fitted to mount .. .. each

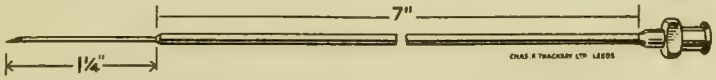
†*This instrument acts as a guide through skin and fascia allowing a fine 22 B.W.G. spinal needle to be introduced through its lumen to puncture the dura.*



G248

G248 ODOM'S INDICATOR, for spinal needles, glass, †Record fitting .. each

By using normal saline in the spinal needle, a meniscus in the indicator will demonstrate the effect of negative pressure in the peridural space and show position of needle point.



G249

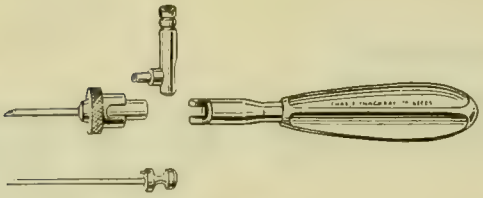
G249 FINSTERER'S SPLANCHNIC NEEDLE, stainless steel shaft: 9½ in. long, †Record fitting mount .. .. each



G250

G250 HEWER'S HEART NEEDLE, stainless steel shaft: 13 B.W.G. by 5¼ in. long, †Record fitting mount .. .. each

†*Also available with Luer fitting mount*



G251

Cat. No.

G251 OXFORD PATTERN STERNAL NEEDLE, consisting of: chromium plated handle, stainless steel needle, 13 B.W.G. by $\frac{7}{8}$ in. long with Record fitting mount, stilette and angled tubing connection .. .. each

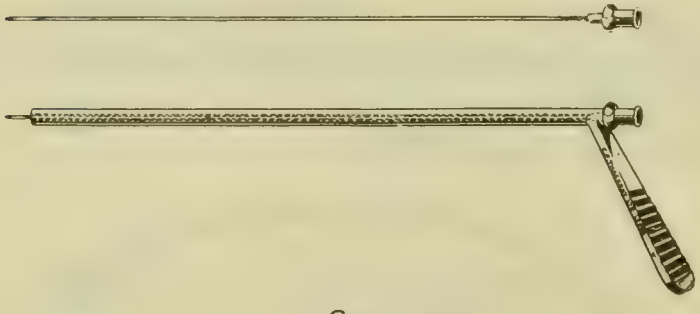
For intrasternal administration of anæsthetic drugs



G252

G252 SALAH'S STERNAL NEEDLE, stainless steel shaft: 15 B.W.G. by $1\frac{1}{8}$ in. long with depth guard, †Record fitting mount .. .. each

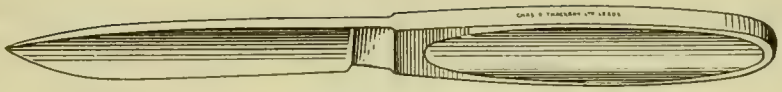
For intrasternal administration of anæsthetic drugs



G253

G253 UPCOTT'S SPLANCHNIC NEEDLE, with guide, stainless steel, †Record fitting mount .. .. each

†Also available with Luer fitting mount



G254

Cat. No.

G254 LISTON'S AMPUTATION KNIFE, solid forged, 4 in. blade, nickel plated, each

G255 Ditto .. 5 in. blade .. .. each

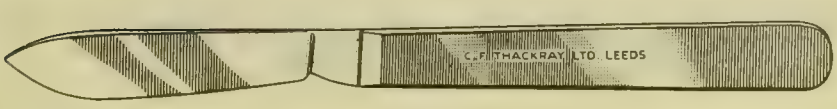
G256 Ditto .. 6 in. blade .. .. each

G257 Ditto .. 7 in. blade .. .. each



G258

G258 SYME'S ANKLE JOINT KNIFE, 4¼ in. blade, solid forged, nickel plated, each

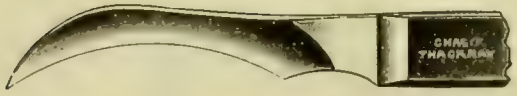


G259

G259 BREAST KNIFE, solid forged, 3 in. blade, nickel plated .. .. each

GENERAL OPERATION INSTRUMENTS

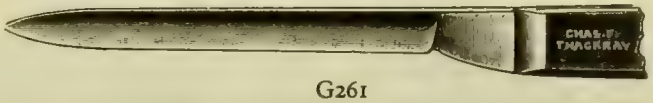
KNIVES



G260

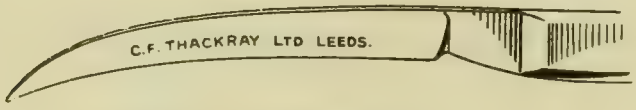
Cat. No.

G260 SYME'S ABSCESS KNIFE, solid forged, nickel plated .. .. each



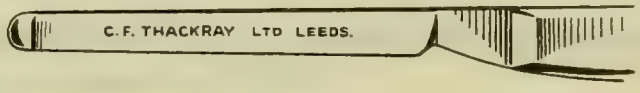
G261

G261 BISTOURY, straight, sharp, solid forged, nickel plated .. .. each



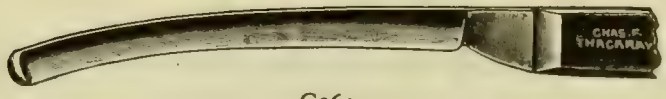
G262

G262 BISTOURY, curved, sharp, solid forged, nickel plated .. .. each



G263

G263 BISTOURY, straight, probe pointed, solid forged, nickel plated .. each



G264

G264 BISTOURY, curved, probe pointed, solid forged, nickel plated .. each



G265

G265 STILES' SCALPELS, five sizes : 1 in., 1¼ in., 1½ in., 1¾ in., and 2 in. blades, solid forged, nickel plated .. .. each



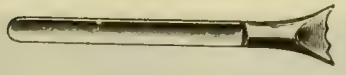
G266

Cat. No.

G266 FINGER KNIFE, 4 in. blade, solid forged, nickel plated .. .. each



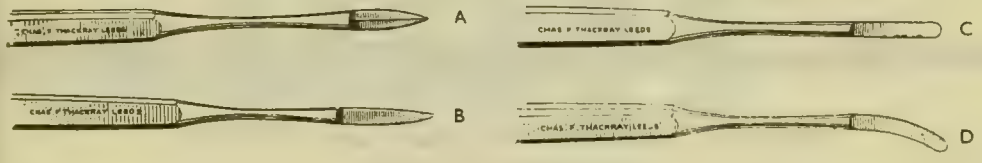
G267



G268

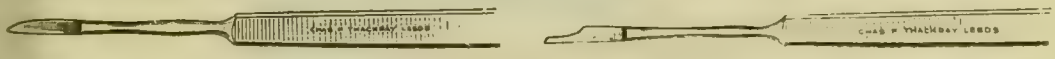
G267 TENOTOMY KNIFE, sharp, solid forged, nickel plated .. .. each

G268 Ditto .. blunt pointed .. .. each



G269

G269 PARKER'S TENOTOMY KNIVES, four shapes: A, B, C and D, solid forged, nickel plated .. .. each



G270 G271

G270 ROBERT JONES' TENOTOMY KNIFE, with sharp point, solid forged, nickel plated .. .. each

G27 Ditto .. with shaped blade .. .. each

GENERAL OPERATION INSTRUMENTS

KNIVES



G272



G273.—No. 3 Handle fits blades Nos. 10, 10A, 11, 12 and 15



G274.—No. 4 Handle fits blades Nos. 20, 21, 22, 23, 24 and 25



G275.—No. 5 Handle fits Blades Nos. 10, 10A, 11, 12 and 15

All illustrations are actual sizes

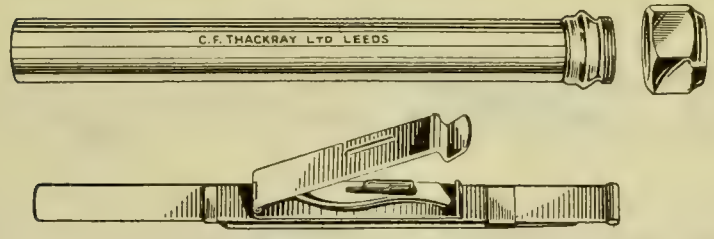
Cat. No.		£ s. d.
†G272	THACKRAY'S "DURAY" (Trade Mark) DETACHABLE SCALPEL BLADES, sizes: 10, 10A, 11, 12, 15, 20, 21, 22, 23, 24 and 25	
	In packets of one size .. .. per doz	
	per gross	
G273	THACKRAY'S "DURAY" (Trade Mark) SCALPEL HANDLE, No. 3, each	
G274	Ditto .. No. 4 .. .. each	
G275	Ditto .. No. 5 .. .. each	

Thackray's "Duray" (Trade Mark) Scalpel Handles and Blades are standard fitting. (British Standard Specification No. 2982)

†*Special quotations for large quantities*

NOTE.—"Duray": Regd. Trade Mark

KNIVES

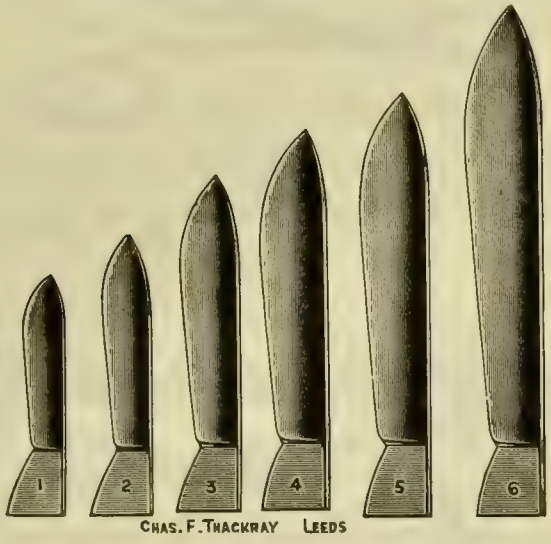


G276

at. No.

3276 SPIRIT-PROOF CASE, cylindrical, with rack to hold one scalpel handle and six blades, nickel plated .. .. each

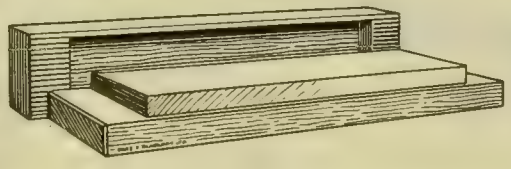
3277 Ditto .. to hold two handles and twelve blades .. .. .. each



G278

G278 SCALPELS, solid forged, six sizes: 1–6, nickel plated .. .. each

G279 Ditto .. stainless steel .. .. each

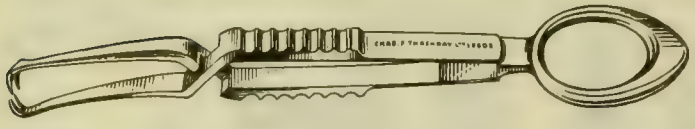


G280

G280 ARKANSAS STONE, mounted, for setting scalpels, etc., size: 5½ in. by 1½ in. by ½ in. .. .. each

GENERAL OPERATION INSTRUMENTS

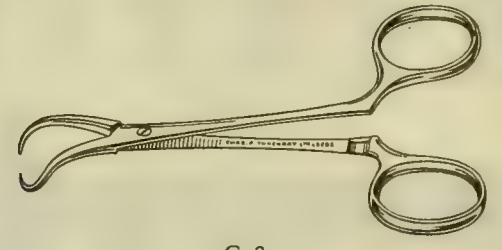
TOWEL FORCEPS



G281

Cat. No.

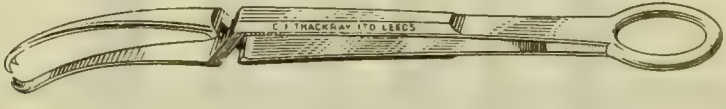
G281 ARMOUR'S TOWEL FORCEPS, cross-action, 5½ in., stainless steel .. each



G282

G282 BACHAUS' TOWEL FORCEPS, screw joint, 4 in., stainless steel .. each

G283 Ditto .. box joint .. .. each



G284

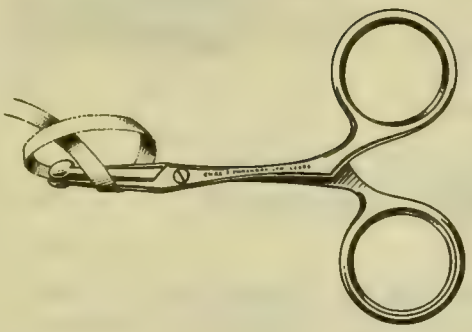
G284 DOYEN'S TOWEL FORCEPS, cross-action, 7½ in., stainless steel .. each



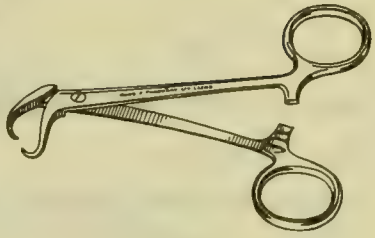
G285

G285 FAGGE'S TOWEL FORCEPS, screw joint, 8 in., stainless steel .. each

G286 Ditto .. box joint .. .. each



G287



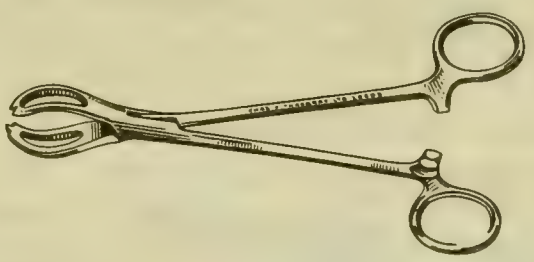
G288

Cat. No.

G287 HOWELL'S SWAB FORCEPS, screw joint, 3½ in., stainless steel .. each

G288 HIGGS' TOWEL FORCEPS, jaws angled-to-left, screw joint, 3½ in., stainless steel .. .. each

G289 Ditto .. jaws angled-to-right .. .. each



G291

G290 LANE'S TOWEL FORCEPS, box joint, 5 in., stainless steel .. each

G291 Ditto .. box joint, 6 in. .. .. each

G292 Ditto .. box joint, 7¾ in. .. .. each

G293 LANE'S TOWEL FORCEPS, screw joint, 5 in., stainless steel .. each

G294 Ditto .. screw joint, 6 in. .. .. each

G295 Ditto .. screw joint, 7¾ in. .. .. each

TOWEL FORCEPS



G296



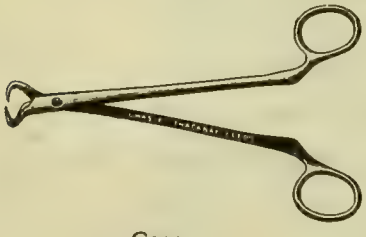
G298

Cat. No.

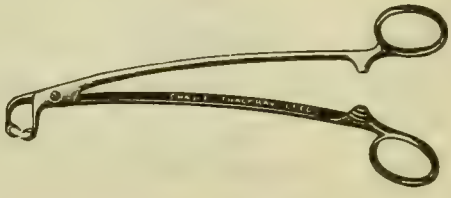
G296 MAYO'S TOWEL FORCEPS, screw joint, 5 in., stainless steel .. each

G297 Ditto .. box joint .. .. each

G298 SHARDLE'S TOWEL FORCEPS, cross-action, 3½ in., stainless steel .. each



G299



G302

G299 MOYNIHAN'S TOWEL FORCEPS, single "tetra", for ends of the incision, screw joint, 7 in., stainless steel .. .. each

G300 Ditto .. box joint .. .. each

G301 Ditto .. small size, screw joint, 3¾ in. .. .. each

G302 MOYNIHAN'S TOWEL FORCEPS, double "tetra", for sides of the incision, screw joint, 7½ in., stainless steel .. .. each

G303 Ditto .. box joint .. .. each

G304 Ditto .. small size, screw joint, 4½ in. .. .. each



G305

G305 MOYNIHAN-MIKULICZ'S TOWEL HOLDING FORCEPS, for holding the ends of tetra cloths, screw joint, 5¼ in., stainless steel .. .. .. each

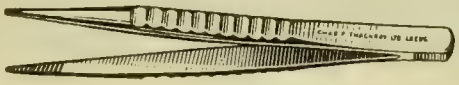
DISSECTING FORCEPS



G306

Cat. No.

G306 DISSECTING FORCEPS, turn-over-end, serrated jaws, 5 in., stainless steel, each
G307 Ditto .. 6 in. .. .. each
G308 Ditto .. 7 in. .. .. each
G309 Ditto .. 8 in. .. .. each



G310

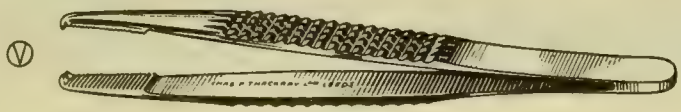
G310 DISSECTING FORCEPS, block-end, serrated jaws, 5 in., stainless steel .. each
G311 Ditto .. 6 in. .. .. each
G312 Ditto .. 7 in. .. .. each
G313 Ditto .. 8 in. .. .. each

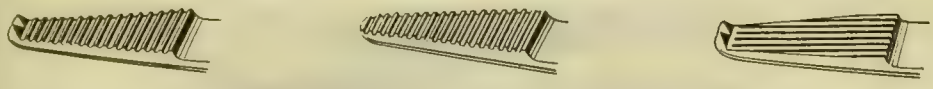


G314

G314 ADSON'S DISSECTING FORCEPS, lightweight handles, with fine one into two teeth on smooth jaws, 5 in., stainless steel .. .. each
G315 Ditto .. 7 in. .. .. each
*G316 ADSON'S DISSECTING FORCEPS, with lightweight handles and non-toothed serrated jaws, 5 in., stainless steel .. .. each
G317 Ditto .. 7 in. .. .. each

Originally designed for neurosurgery.





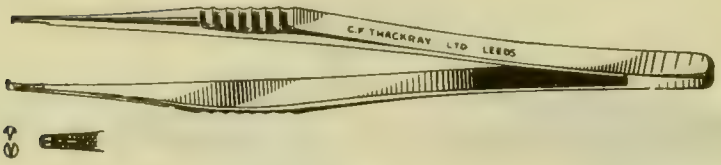
G318 G319 G320

G318 BONNEY'S DISSECTING FORCEPS, with one into two teeth on serrated jaws, 7 in., stainless steel .. .. each
G319 Ditto .. non-toothed serrated jaws .. .. each
G320 Ditto .. with one into two teeth on longitudinally grooved jaws .. each

**Not illustrated*

GENERAL OPERATION INSTRUMENTS

DISSECTING FORCEPS



G321

Cat. No.

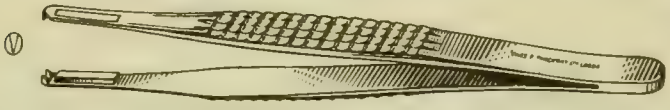
G321 BRAITHWAITE'S DISSECTING FORCEPS, with one into two teeth on serrated and grooved jaws, 6 in., stainless steel .. .. .. each

Particularly useful in suturing, for " pulling through ", etc.



G322

G322 BROMLEY'S DISSECTING FORCEPS, with one into two teeth on copper covered jaws, 7 in., stainless steel .. .. each



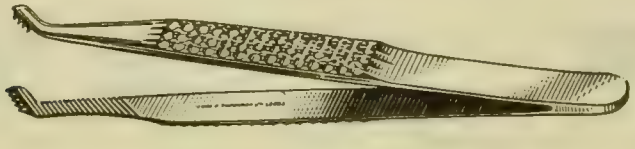
G323

G323 CHARNLEY'S DISSECTING FORCEPS, with one into two teeth and block on jaw, 7 in., stainless steel .. .. each

AD4598 Ditto .. $5\frac{3}{4}$ in. .. .. each

In addition to its use as dissecting forceps this instrument has been designed to grip suture material firmly when tying knots in " no-touch " technique; the suture is trapped in the fenestrum by the block projection on the opposing jaw. These forceps are particularly useful in the tying of heavy suture material, especially nylon and catgut.

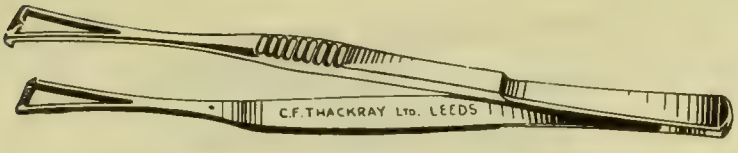
Vide " B.M.J.", May 19th, 1945. Page 702.



G324

G324 CHILDE'S DISSECTING FORCEPS, with four into five teeth on serrated jaws, 7 in., stainless steel .. .. each

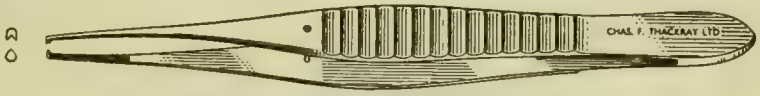
Originally designed for approximating wound edges.



G325

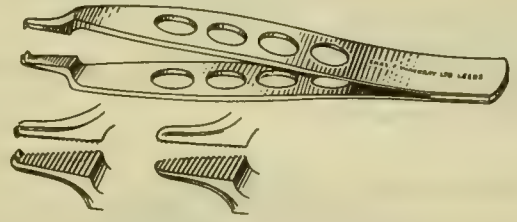
Cat. No.

G325 DUVAL'S DISSECTING FORCEPS, with non-traumatic teeth on triangular jaws: ½ in. wide, 6 in., stainless steel .. .. each



G326

G326 GILLIES' DISSECTING FORCEPS, with fine one into two teeth on serrated jaws, 6 in., stainless steel .. .. each



G327 G330

G327 JEAN'S DISSECTING FORCEPS, with one into two teeth on serrated jaws, 5½ in., stainless steel .. .. each
G328 Ditto .. with one into two teeth, 7 in. .. .. each
G329 Ditto .. with two into three teeth, 7 in. .. .. each
G330 JEAN'S DISSECTING FORCEPS, with non-toothed serrated jaws, 5½ in., stainless steel .. .. each



G331

G331 LANE'S DISSECTING FORCEPS, with one into two teeth on serrated jaws, 5¾ in., stainless steel .. .. each
G332 Ditto .. with two into three teeth .. .. each
G333 Ditto .. with three into four teeth .. .. each
G334 LANE'S DISSECTING FORCEPS, with one into two teeth on serrated jaws, 7 in., stainless steel .. .. each
G335 Ditto .. with two into three teeth .. .. each
G336 Ditto .. with three into four teeth .. .. each

GENERAL OPERATION INSTRUMENTS

DISSECTING FORCEPS



G337

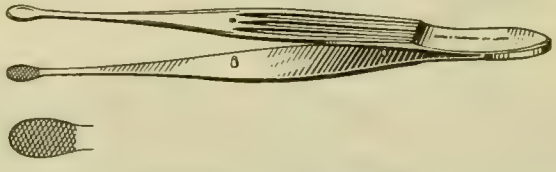
Cat. No.

G337 LANE'S DISSECTING FORCEPS, with roughened handles and one into two teeth on serrated jaws, $5\frac{3}{4}$ in., stainless steel .. .. each
G338 Ditto .. with two into three teeth .. .. each
G339 Ditto .. with three into four teeth .. .. each
G340 LANE'S DISSECTING FORCEPS, with roughened handles and one into two teeth on serrated jaws, 7 in., stainless steel .. .. each
G341 Ditto .. with two into three teeth .. .. each
G342 Ditto .. with three into four teeth .. .. each



G344

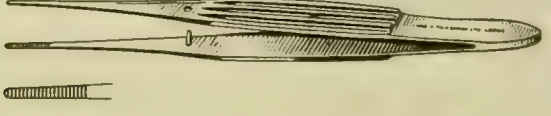
G343 LEEDHAM GREEN'S DISSECTING FORCEPS, with two into three teeth on smooth jaws, $5\frac{3}{4}$ in., stainless steel .. .. each
G344 Ditto .. with three into four teeth .. .. each
G345 LEEDHAM GREEN'S DISSECTING FORCEPS, with two into three teeth on smooth jaws, 7 in., stainless steel .. .. each
G346 Ditto .. with three into four teeth .. .. each



G347

G347 MAINGOT'S MODIFIED McINDOE'S DISSECTING FORCEPS, with serrated spatulate jaws, 6 in., stainless steel .. .. each
These forceps are useful for holding the intestines during anastomosis and also in suturing the various layers of the abdominal wall. The fine serrations on the jaws are non-injurious to the tissues.

Vide "LANCET", October 30th. 1948.



G348

G348 McINDOE'S DISSECTING FORCEPS, with non-toothed serrated jaws, 6 in., stainless steel .. .. each



G349

Cat. No.

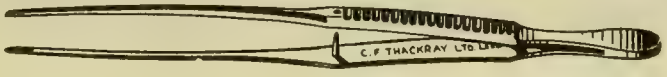
G349 MICHEL'S DISSECTING FORCEPS, with one into two teeth on smooth jaws, 5 in., stainless steel .. .. each

Originally designed for approximating wound edges.



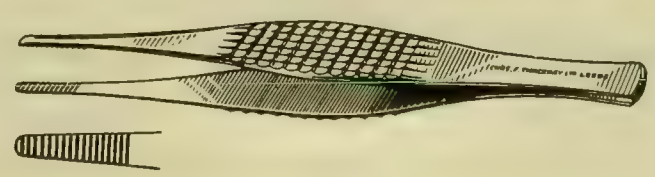
G350

G350 MITCHELL'S DISSECTING FORCEPS, with three into four teeth on serrated jaws, 7 in., stainless steel .. .. each



G351

G351 MOYNIHAN'S DISSECTING FORCEPS, with non-toothed serrated jaws, 7½ in., stainless steel .. .. each

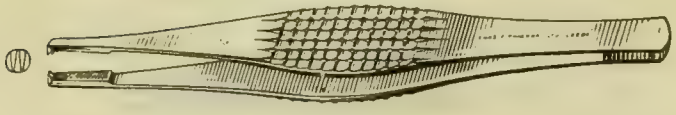


G352

G352 RAMSAY'S DISSECTING FORCEPS, with non-toothed serrated jaws, 7 in., stainless steel .. .. each

GENERAL OPERATION INSTRUMENTS

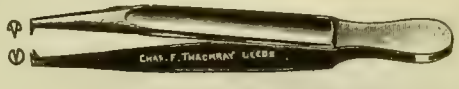
DISSECTING FORCEPS



G353

Cat. No.

G353 RAMSAY'S DISSECTING FORCEPS, with two into three teeth on serrated jaws, 7 in., stainless steel .. .. each



G354

G354 TEALE'S DISSECTING FORCEPS, with one into two teeth on smooth jaws, 5 in., stainless steel .. .. each

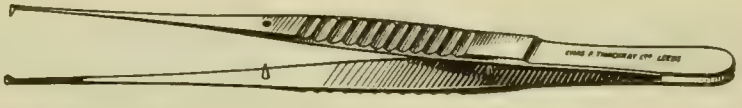


G355

G355 TREVES'S DISSECTING FORCEPS, with one into two teeth on smooth jaws, 5 in., stainless steel .. .. each

G355A Ditto .. 6 in. .. .. each

G355B Ditto .. 7 in. .. .. each



G356

G356 WAUGH'S DISSECTING FORCEPS, with fine one into two teeth on serrated jaws, 8 in., stainless steel .. .. each

G357 Ditto .. 7 in. .. .. each

*G358 WAUGH'S DISSECTING FORCEPS, with fine non-toothed serrated jaws, 8 in., stainless steel .. .. each

G359 Ditto .. 7 in. .. .. each

Originally designed for tonsil work.

**Not illustrated*

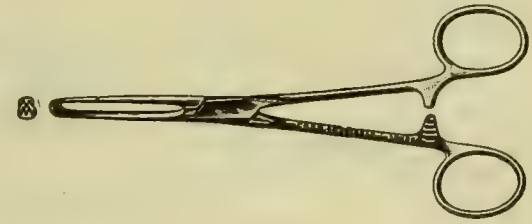


G360

Cat No.

G360 ALLIS' TISSUE FORCEPS, with four into five teeth, screw joint, 6 in., stainless steel .. .. each

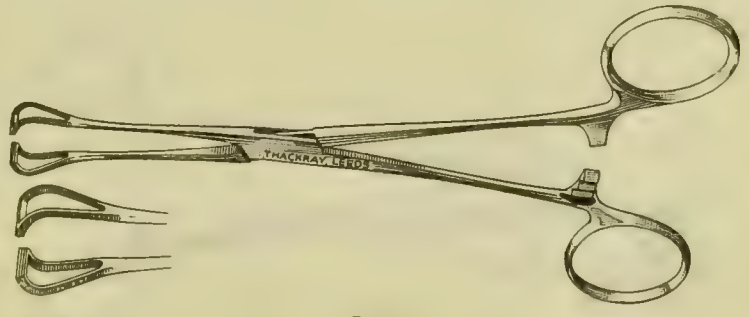
G361 Ditto .. box joint .. .. each



G362

G362 ALLIS' TISSUE FORCEPS, American Pattern, with three into four teeth, box joint, 5¾ in., stainless steel .. .. each

NOTE.—Larger size (7¾ in.) known as Judd-Allis', see page G55



G363

G363 BABCOCK'S TISSUE FORCEPS, box joint, 6½ in., stainless steel .. each

AD4677 Ditto .. 9 in. .. .. each

The jaws of these forceps have transverse serrations which give a light but firm grip without injuring the tissues.

GENERAL OPERATION INSTRUMENTS

TISSUE FORCEPS

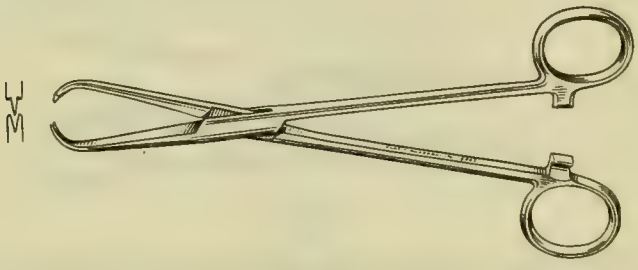


G364

Cat. No.

G364 DUVAL'S TISSUE FORCEPS, screw joint, 7½ in., ½ in. blades, stainless steel, each

G365 Ditto .. box joint .. .. each



G366

G366 DYBALL'S TISSUE FORCEPS, with one into two teeth, box joint, 6½ in., stainless steel .. .. each

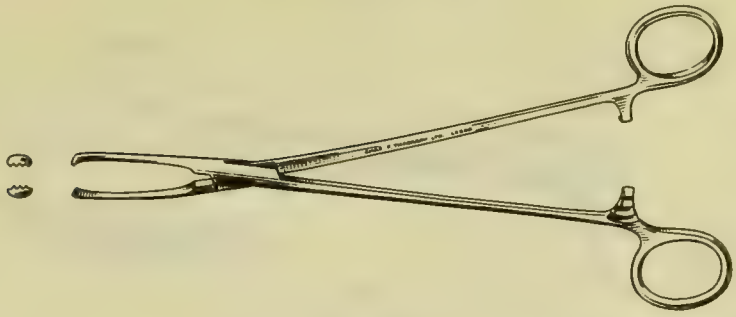


G367

G367 FAGGE'S TISSUE FORCEPS, screw joint, 8 in., stainless steel .. each

G368 Ditto .. box joint .. .. each

TISSUE FORCEPS

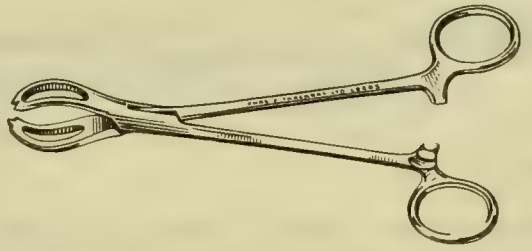


G369

Cat. No.

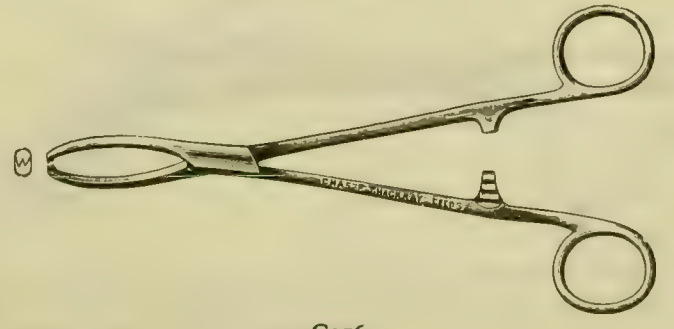
G369 JUDD-ALLIS' TISSUE FORCEPS, with three into four teeth, box joint, $7\frac{3}{4}$ in., stainless steel .. .. each

These forceps have fine teeth and light spring shanks to avoid damage to tissue.



G371

G370 LANE'S TISSUE FORCEPS, box joint, 5 in., stainless steel .. .. each
G371 Ditto .. box joint, 6 in. .. .. each
G372 Ditto .. box joint, $7\frac{3}{4}$ in. .. .. each
G373 LANE'S TISSUE FORCEPS, screw joint, 5 in., stainless steel .. each
G374 Ditto .. screw joint, 6 in. .. .. each
G375 Ditto .. screw joint, $7\frac{3}{4}$ in. .. .. each



G376

G376 LITTLEWOOD'S TISSUE FORCEPS, box joint, $7\frac{1}{2}$ in., stainless steel, each

GENERAL OPERATION INSTRUMENTS

TISSUE FORCEPS



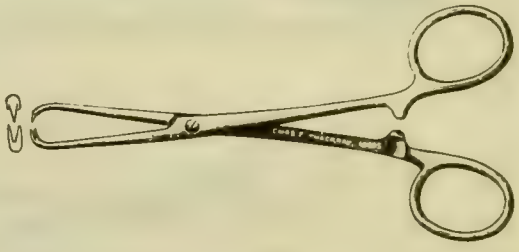
G377

Cat. No.

G377 RUTHERFORD MORISON'S TISSUE FORCEPS, with four into five teeth, box joint, 6 in., stainless steel .. .. each
G378 Ditto .. screw joint .. .. each

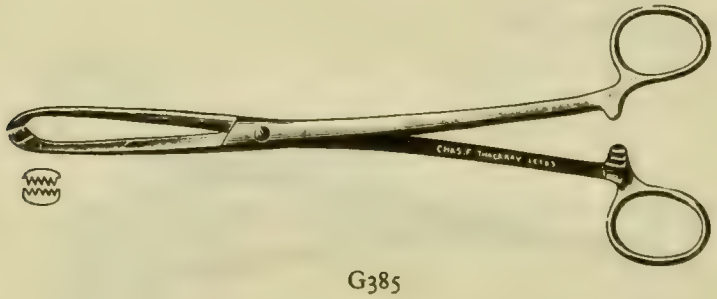


G379



G383

G379 POIRIER'S TISSUE FORCEPS, with two into three teeth, box joint, 5 in., stainless steel .. .. each
G380 Ditto .. box joint, 7 in. .. .. each
G381 POIRIER'S TISSUE FORCEPS, with two into three teeth, screw joint, 5 in., stainless steel .. .. each
G382 Ditto .. screw joint, 7 in. .. .. each
G383 MOYNIHAN'S SKIN FORCEPS, with one into two teeth, screw joint, 5 in., stainless steel .. .. each
G384 Ditto .. box joint .. .. each

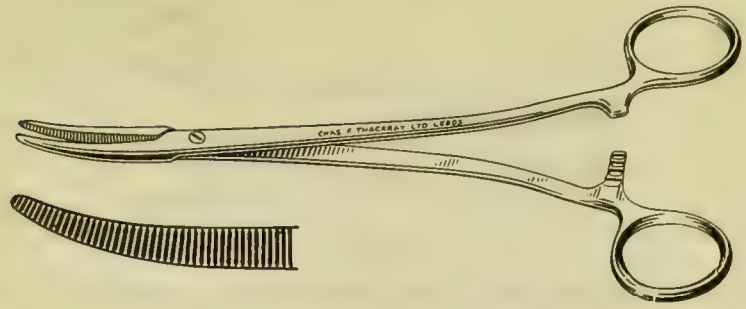


G385

G385 STILES' TISSUE FORCEPS, with five into six teeth, screw joint, 8 in., stainless steel .. .. each
G386 Ditto .. box joint .. .. each

These forceps can be supplied insulated and fitted with diathermy attachment (box joint only) or fitted with diathermy attachment only (screw joint), see page G61.

ARTERY FORCEPS

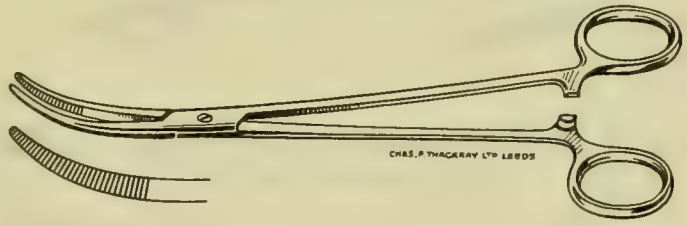


G338

Cat. No.

G387 HAMILTON BAILEY'S ARTERY FORCEPS, curved-on-flat, screw joint, 5 in., stainless steel .. .. each

G388 Ditto .. screw joint, 8 in. .. .. each



G390

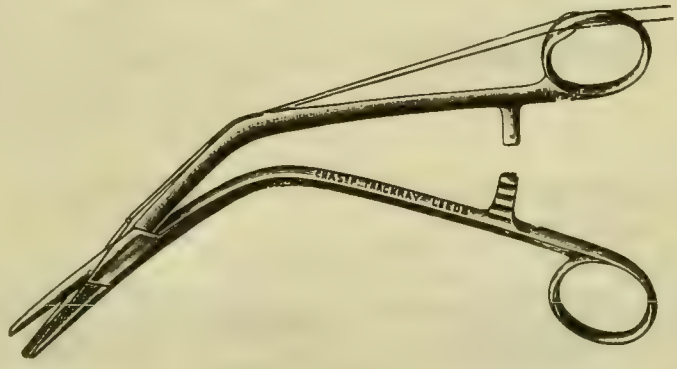
*G389 BIRKETT'S ARTERY FORCEPS, straight, screw joint, 7½ in., stainless steel, each

G390 Ditto .. curved-on-flat .. .. each

*G391 BIRKETT'S ARTERY FORCEPS, straight, box joint, 7½ in., stainless steel, each

*G392 Ditto .. curved-on-flat .. .. each

Originally designed for tonsil work



G393

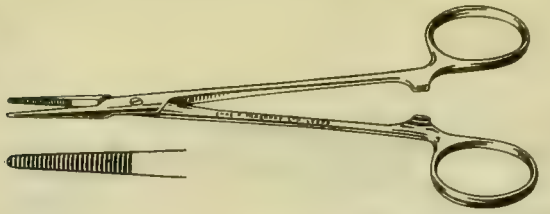
G393 DENIS BROWNE'S ARTERY FORCEPS, angled laterally, with ligature notch on bow, shank and jaw, box joint, 8 in., stainless steel .. .. .. each

Originally designed for tonsil work

**Not illustrated*

GENERAL OPERATION INSTRUMENTS

ARTERY FORCEPS



G394

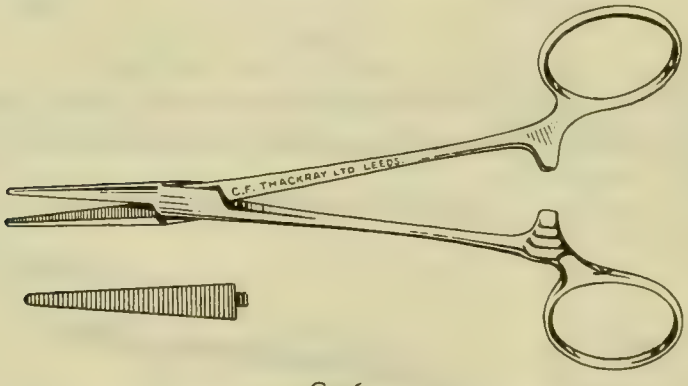
Cat. No.

G394 CAIRNS' ARTERY FORCEPS, straight, screw joint, 6 in., stainless steel each
Originally designed for neurosurgery.



G395

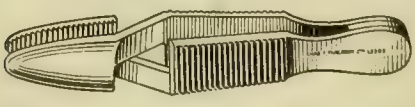
G395 CAIRNS' ARTERY FORCEPS, curved-on-flat, screw joint, 6 in., stainless steel, each
Originally designed for neurosurgery.



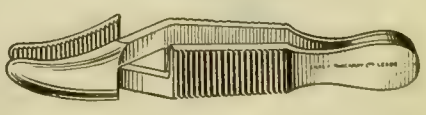
G396

G396 CRILE'S ARTERY FORCEPS, straight, box joint, 6 in., stainless steel .. each

G397 Ditto .. curved-on-flat .. .. each



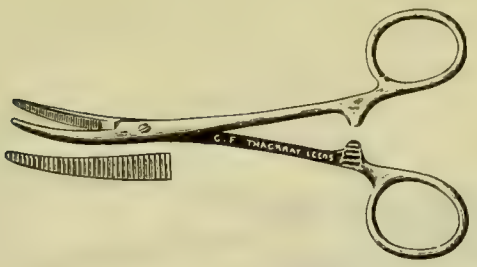
G398



G399

G398 DIEFFENBACH'S ARTERY FORCEPS, "Bull Dog", straight, 2 in., stainless steel .. .. each

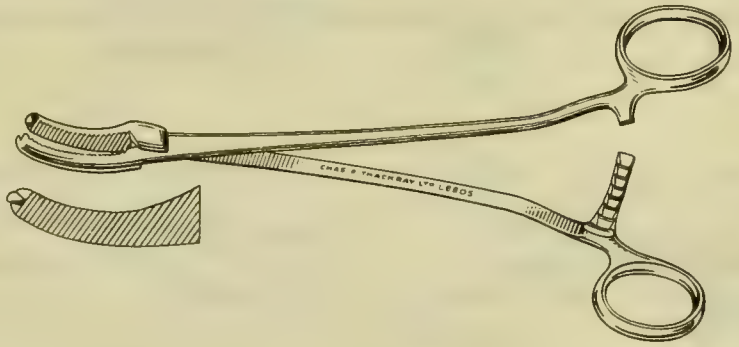
G399 Ditto .. curved laterally .. .. each



G400

Cat. No.

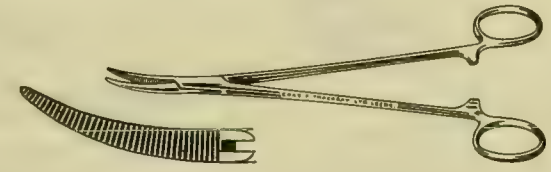
G400 DUNHILL'S ARTERY FORCEPS, curved-on-flat, screw joint, 5 in., stainless steel .. .. each



G401

G401 FAURE'S ARTERY FORCEPS, curved-on-flat, aseptic joint, 8 in., stainless steel .. .. each

*G402 Ditto .. with longitudinally grooved jaws, as used at the Birmingham Women's Hospital .. .. each

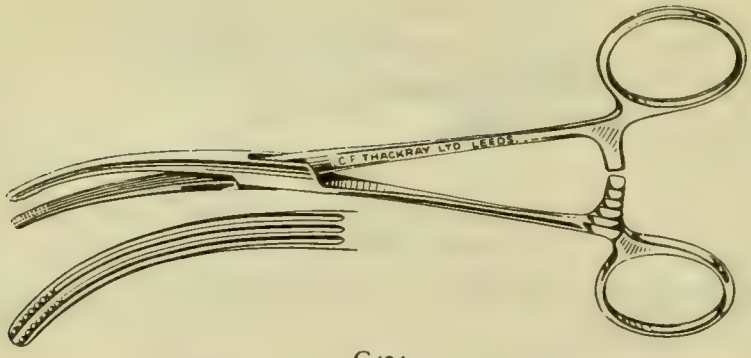


G403

G403 FRASER-KELLY'S ARTERY FORCEPS, curved-on-flat, box joint, 7 in., stainless steel .. .. each

**Not illustrated*

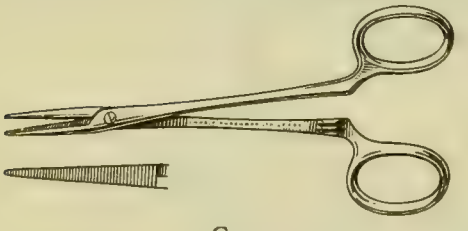
ARTERY FORCEPS



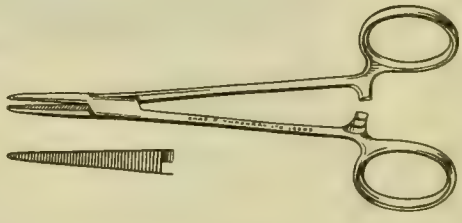
G404

Cat. No.

G404 GOUGH'S ARTERY FORCEPS, curved-on-flat, box joint, 8 in., stainless steel, each



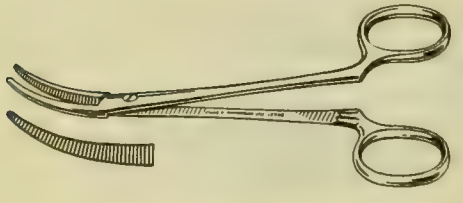
G405



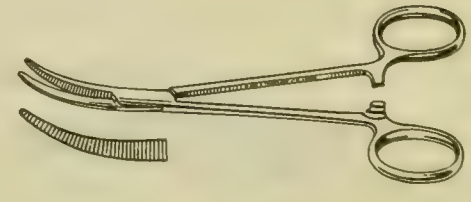
G406

G405 HALSTED'S "MOSQUITO" ARTERY FORCEPS, straight, screw joint, 5 in., stainless steel .. .. each

G406 Ditto .. box joint .. .. each



G407

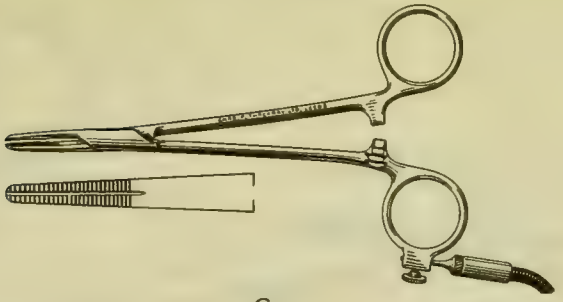


G408

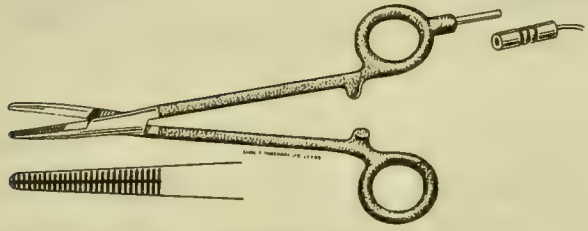
G407 HALSTED'S "MOSQUITO" ARTERY FORCEPS, curved-on-flat, screw joint, 5 in., stainless steel .. .. each

G408 Ditto .. box joint .. .. each

ARTERY FORCEPS



G410



G413

Cat. No.

*G409 WILSON HEY'S ARTERY FORCEPS, with attachment on bow for diathermy terminal, without grooves on jaws, straight, box joint, 5¾ in., stainless steel .. each

G410 Ditto .. with grooves on jaws for needles, box joint, 7 in. .. .. each

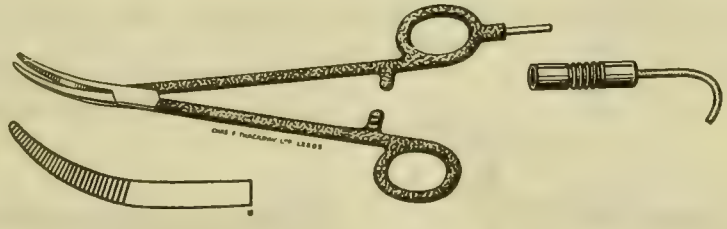
G411 Ditto .. with grooves on jaws for needles, box joint, 9 in. .. .. each

*G412 WILSON HEY'S ARTERY FORCEPS, with shanks and bows covered with boilable insulating material and attachment on bow for diathermy terminal, without grooves on jaws, straight, box joint, 5¾ in., stainless steel .. .. .. each

G413 Ditto .. with grooves on jaws for needles, box joint, 7 in. .. .. each

G414 Ditto .. with grooves on jaws for needles, box joint, 9 in. .. .. each

As described in the "B.M.J." June 21st. 1947, and the "British Journal of Surgery", vol. 33, 129, 1945: "Asepsis in Prostatectomy".



G416

G415 RICHES' ARTERY FORCEPS, with shanks and bows covered with boilable insulating material and attachment for diathermy terminal, curved-on-flat, box joint, 5½ in., stainless steel .. .. each

G416 Ditto .. box joint, 8 in. .. .. each

G417 CABLES, with pin-terminal for Fig. Nos. G409–411 .. .. .. each

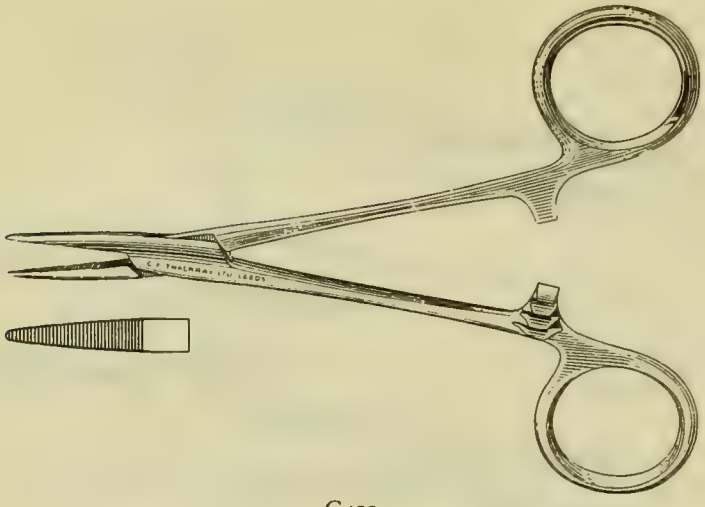
G418 CABLES, with socket type terminal for Fig. Nos. G412–416 .. .. each

As described in the "B.M.J.", June 21st. 1952. Page 1356.

**Not illustrated*

GENERAL OPERATION INSTRUMENTS

ARTERY FORCEPS

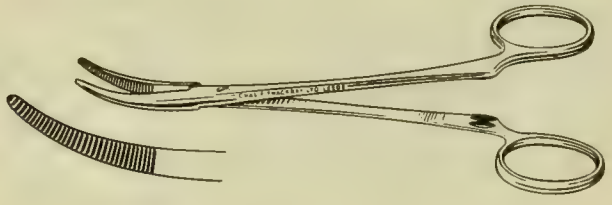


G419

Cat. No.

G419 JOLL'S ARTERY FORCEPS, straight, box joint, $5\frac{3}{4}$ in., stainless steel .. each

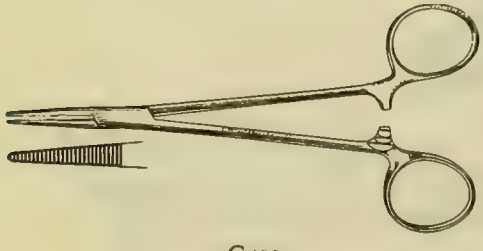
Originally designed for surgery of the thyroid gland.



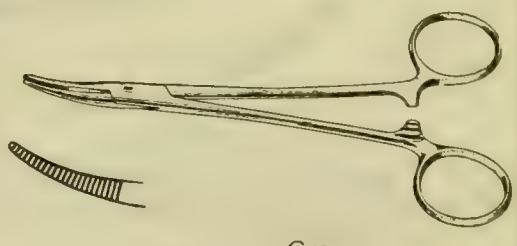
G421

*G420 KELLY-HALSTED'S ARTERY FORCEPS, straight, screw joint, $5\frac{3}{4}$ in., stainless steel .. .. each

G421 Ditto .. curved-on-flat .. .. each



G422



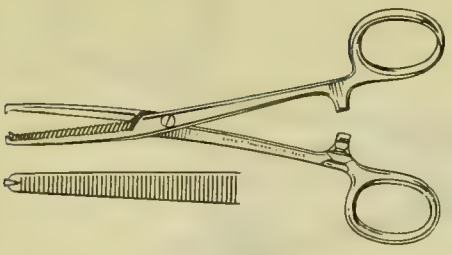
G423

G422 KILNER'S ARTERY FORCEPS, straight, box joint, $5\frac{1}{2}$ in., stainless steel, each

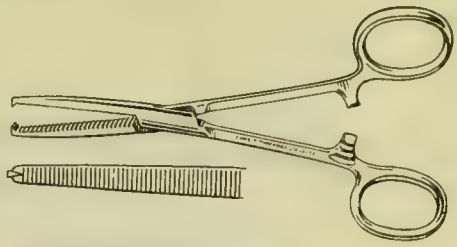
G423 Ditto .. curved-on-flat .. .. each

Originally designed for plastic surgery.

**Not illustrated*



G424



G428

Cat. No.

G424 KOCHER'S ARTERY FORCEPS, straight, screw joint, 5 in., stainless steel, each

G425 Ditto .. screw joint, 6 in. .. .. each

G426 Ditto .. screw joint, 7 in. .. .. each

G427 Ditto .. screw joint, 8 in. .. .. each

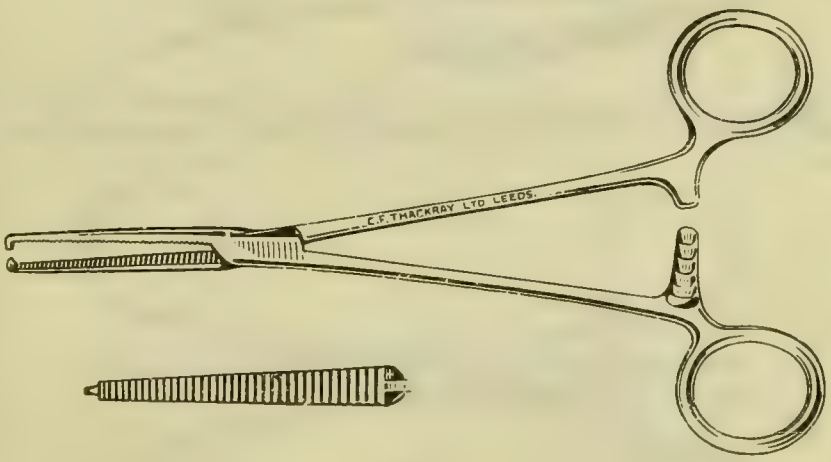
G428 KOCHER'S ARTERY FORCEPS, straight, box joint, 5 in., stainless steel, each

G429 Ditto .. box joint, 6 in. .. .. each

G430 Ditto .. box joint, 7 in. .. .. each

*G431 KOCHER'S ARTERY FORCEPS, curved-on-flat, box joint, 7 in., stainless steel .. .. each

*G432 Ditto .. box joint, 8 in. .. .. each



G433

G433 MAYO-OCHSNER'S ARTERY FORCEPS, straight, box joint, 7 in., stainless steel .. .. each

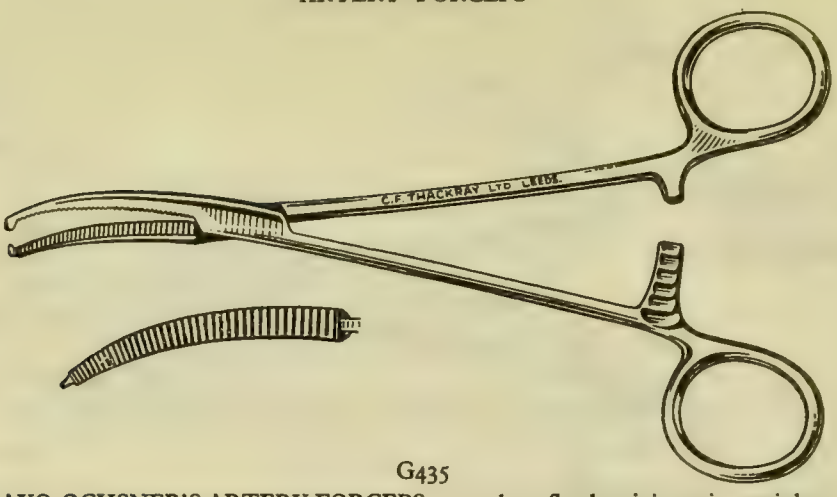
G434 Ditto .. box joint, 8 in. .. .. each

Not illustrated.

SEE ALSO PAGE AD836

GENERAL OPERATION INSTRUMENTS

ARTERY FORCEPS



G435

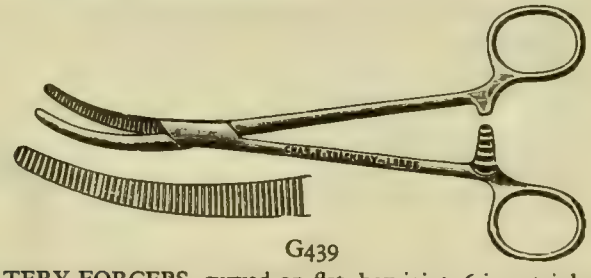
Cat. No.

G435 MAYO-OCHSNER'S ARTERY FORCEPS, curved-on-flat, box joint, 7 in., stainless steel .. .. each

G436 Ditto .. box joint, 8 in. .. .. each

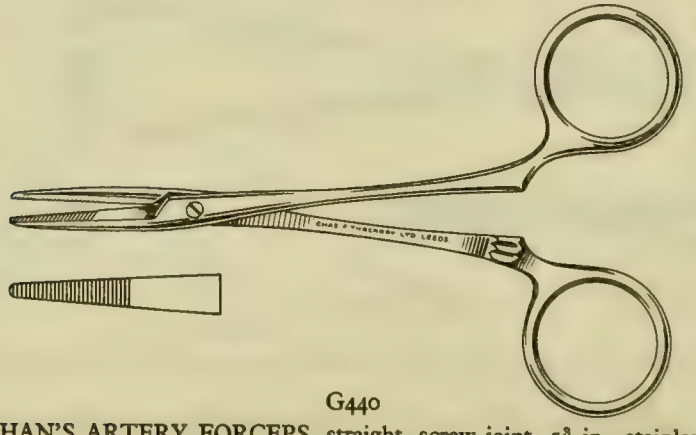
*G437 MAYO-OCHSNER'S ARTERY FORCEPS, angled-on-flat, box joint, 7 in., stainless steel .. .. each

*G438 Ditto .. box joint, 8 in. .. .. each



G439

G439 MAYO'S ARTERY FORCEPS, curved-on-flat, box joint, 6 in., stainless steel, each



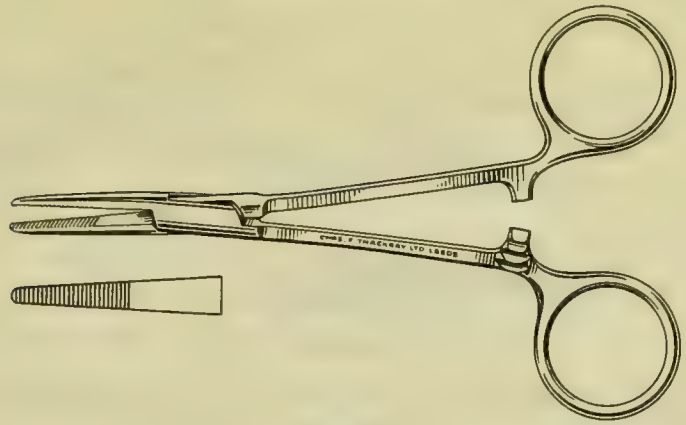
G440

G440 MOYNIHAN'S ARTERY FORCEPS, straight, screw joint, 5¾ in., stainless steel, each

G441 Ditto .. screw joint, 7 in. .. .. each

**Not illustrated*

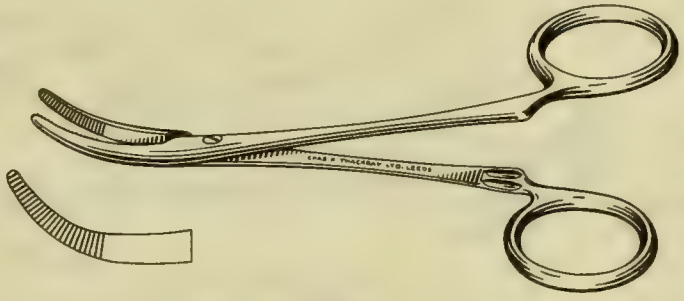
ARTERY FORCEPS



G442

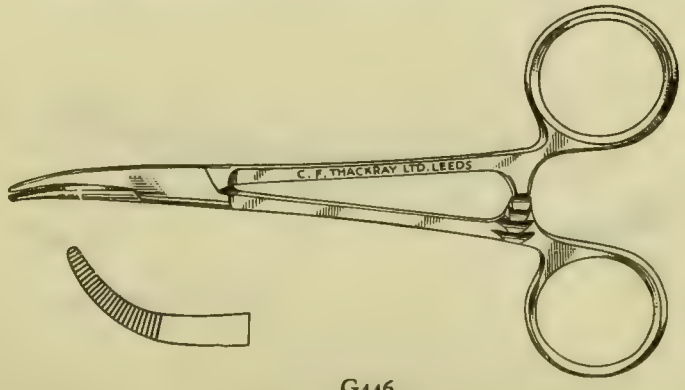
Cat. No.

G442 MOYNIHAN'S ARTERY FORCEPS, straight, box joint, 5¾ in., stainless steel, each
G443 Ditto .. box joint, 7 in. .. .. each



G444

G444 MOYNIHAN'S ARTERY FORCEPS, curved-on-flat, screw joint, 5¾ in., stainless steel .. .. each
G445 Ditto .. screw joint, 7 in. .. .. each

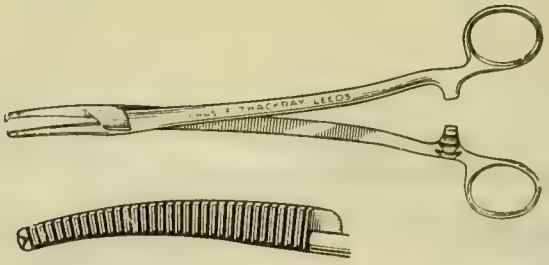


G446

G446 MOYNIHAN'S ARTERY FORCEPS, curved-on-flat, box joint, 5¾ in., stainless steel .. .. each
G447 Ditto .. box joint, 7 in. .. .. each

GENERAL OPERATION INSTRUMENTS

ARTERY FORCEPS

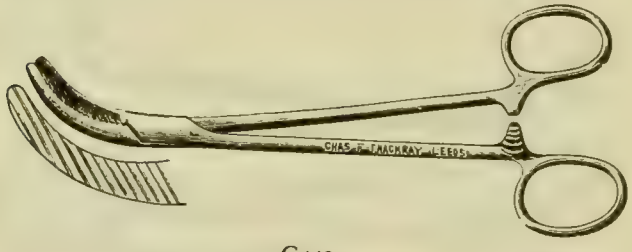


G448

Cat. No.

G448 MOYNIHAN-MIKULICZ'S ARTERY FORCEPS, curved-on-flat, aseptic joint, $8\frac{3}{4}$ in., stainless steel .. .. each

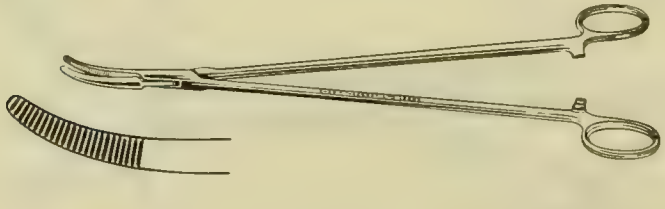
Originally designed for the peritoneum.



G449

G449 MILES PHILLIPS' ARTERY FORCEPS, curved-on-flat, box joint, $6\frac{1}{2}$ in., stainless steel .. .. each

Originally designed for clamping the uterine artery.

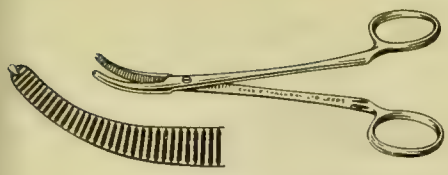


G450

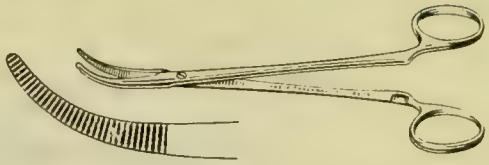
G450 DUDFIELD ROSE'S ARTERY FORCEPS, curved-on-flat, box joint, $10\frac{1}{4}$ in., stainless steel .. .. each

Originally designed for sympathectomy, these forceps have been found useful in a variety of operations where long forceps with a light grip are required.

ARTERY FORCEPS



G451



G452

Cat. No.

G451 SARGENT'S ARTERY FORCEPS, curved-on-flat, screw joint, 6 in., stainless steel .. .. each

Originally designed for scalp flaps.

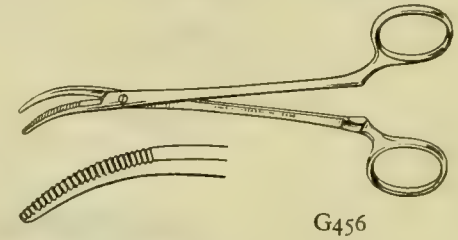
G452 SAWTELL'S ARTERY FORCEPS, curved-on-flat, screw joint, 7 in., stainless steel .. .. each

G453 Ditto .. box joint .. .. each

Originally designed for tonsil work.



G454



G456

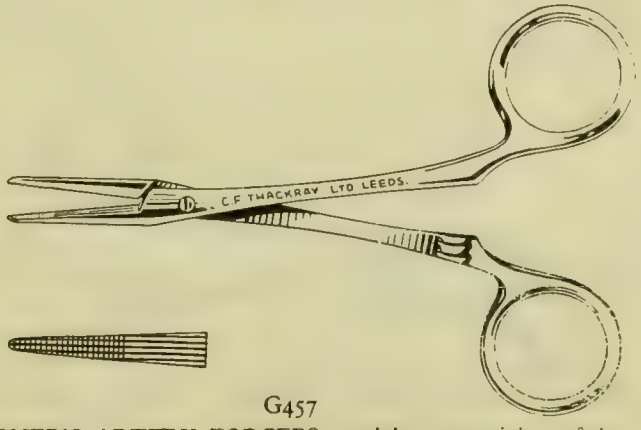
G454 SCHNIDT'S ARTERY FORCEPS, curved-on-flat, screw joint, 7 in., stainless steel .. .. each

G455 Ditto .. box joint .. .. each

Originally designed for tonsil work.

†G456 SCOTT'S ARTERY FORCEPS, curved laterally, screw joint, 7 in., stainless steel .. .. each

Originally designed for tonsil work.



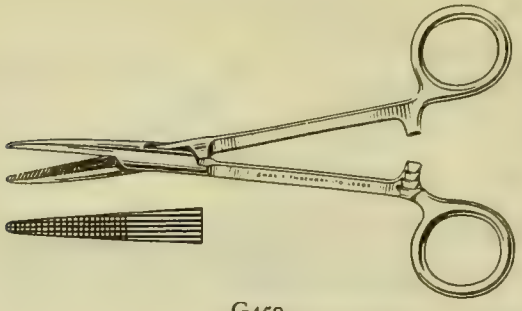
G457

G457 GREY TURNER'S ARTERY FORCEPS, straight, screw joint, $5\frac{3}{4}$ in., stainless steel .. .. each

G458 Ditto .. screw joint, 7 in. .. .. each

†*These forceps can be supplied insulated and fitted with diathermy attachment (box joint only), or fitted with diathermy attachment only (screw joint), see page* G61.

ARTERY FORCEPS

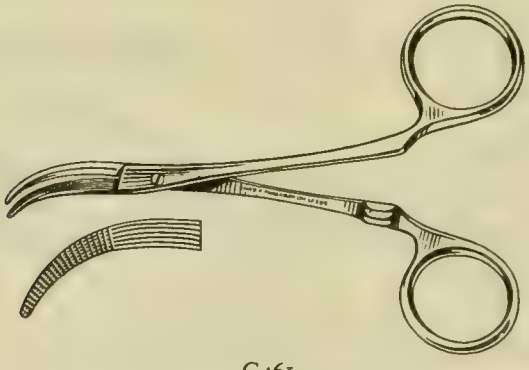


G459

Cat. No.

G459 GREY TURNER'S ARTERY FORCEPS, straight, box joint, $5\frac{3}{4}$ in., stainless steel .. .. each

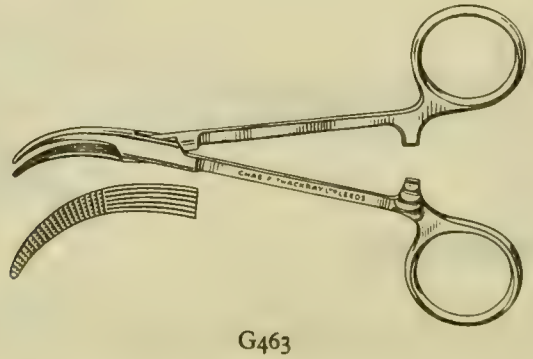
G460 Ditto .. box joint, 7 in. .. .. each



G461

G461 GREY TURNER'S ARTERY FORCEPS, curved-on-flat, screw joint, $5\frac{3}{4}$ in., stainless steel .. .. each

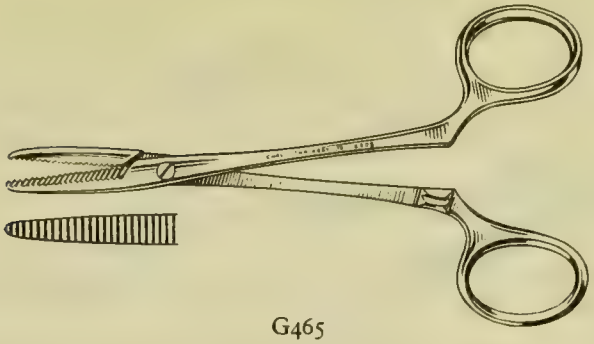
G462 Ditto .. screw joint, 7 in. .. .. each



G463

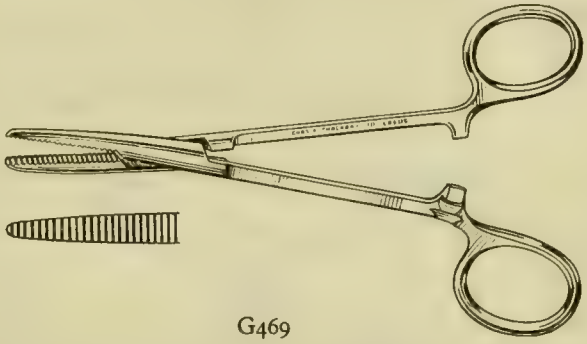
G463 GREY TURNER'S ARTERY FORCEPS, curved-on-flat, box joint, $5\frac{3}{4}$ in., stainless steel .. .. each

G464 Ditto .. box joint, 7 in. .. .. each



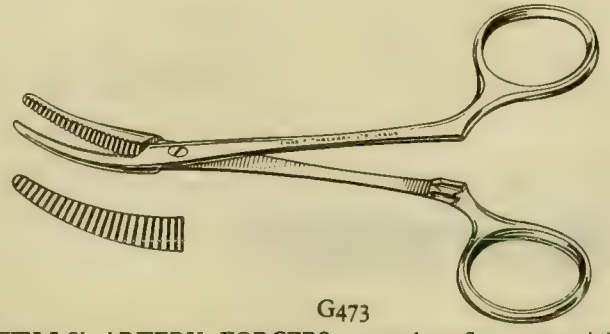
G465

Cat. No.			
G465	SPENCER WELLS' ARTERY FORCEPS, straight, screw joint, 5 in., stainless steel	.. ..	each
G466	Ditto ..	screw joint, 6 in.	each
G467	Ditto ..	screw joint, 7 in.	each
G468	Ditto ..	screw joint, 8 in.	each
G468A	Ditto ..	screw joint, 9 in.	each



G469

G469	SPENCER WELLS' ARTERY FORCEPS, straight, box joint, 5 in., stainless steel	.. ..	each
G470	Ditto ..	box joint, 6 in.	each
G471	Ditto ..	box joint, 7 in.	each
G472	Ditto ..	box joint, 8 in.	each
G472A	Ditto ..	box joint, 9 in.	each



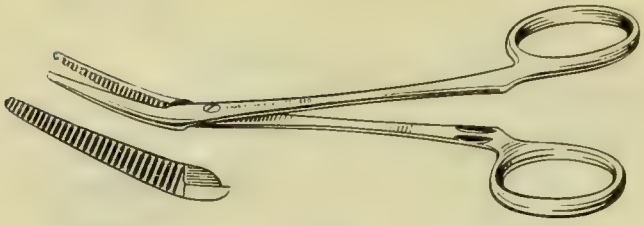
G473

G473	SPENCER WELLS' ARTERY FORCEPS, curved-on-flat, screw joint, 5 in., stainless steel	.. ..	each
G474	Ditto ..	screw joint, 6 in.	each
G475	Ditto ..	screw joint, 7 in.	each
G476	Ditto ..	screw joint, 8 in.	each

SEE ALSO PAGE AD837

GENERAL OPERATION INSTRUMENTS

ARTERY FORCEPS, ETC.

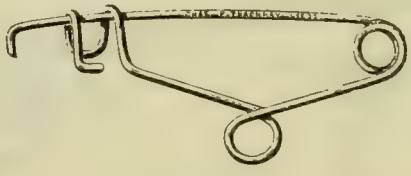


G477

Cat. No.

G477 SPENCER WELLS' ARTERY FORCEPS, angled-on-flat, screw joint, 5 in., stainless steel .. .. each

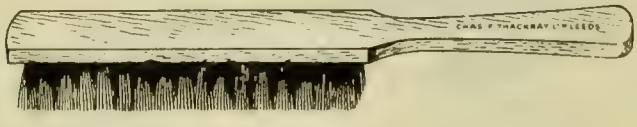
*G478 Ditto .. angled laterally .. .. each



G479

G479 MAYO'S SAFETY PIN, for artery forceps, etc., 4½ in., stainless steel .. each

G479A Ditto .. 6 in. .. .. each



G480

G480 BRUSH, for cleaning jaws of artery forceps, etc., metal bristles on wooden handle, each

**Not illustrated*



BY-PASS BOWS (Crompton Pat. No. 661393) can be fitted to dressing scissors of all types at very small extra cost .. .. extra each

The curved shape of the bows enables this type of scissors to be easily lifted from a flat surface and in by-passing the knuckles provides more comfort in use in either hand.



G481



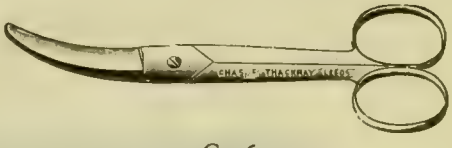
G485

Cat. No.

G481	SCISSORS, straight, with blunt points, 5 in., stainless steel	each
G482	Ditto .. 6 in.	each
G483	Ditto .. 7 in.	each
G484	Ditto .. 8 in.	each
G485	SCISSORS, straight, with sharp points, 5 in., stainless steel	each
G486	Ditto .. 6 in.	each
G487	Ditto .. 7 in.	each
G488	Ditto .. 8 in.	each
G489	SCISSORS, straight, with blunt points, 5 in., nickel plated	each
G490	Ditto .. with sharp points	each
G491	Ditto .. with one blunt and one sharp point	each



G492



G496

G492	SCISSORS, straight, with one blunt and one sharp point, 5 in., stainless steel,	each
G493	Ditto .. 6 in.	each
G494	Ditto .. 7 in.	each
G495	Ditto .. 8 in.	each
G496	SCISSORS, curved-on-flat, with blunt points, 5 in., stainless steel ..	each
G497	Ditto .. 6 in.	each
G498	Ditto .. 7 in.	each
G499	Ditto .. 8 in.	each

GENERAL OPERATION INSTRUMENTS

SCISSORS



G500

Cat. No.

G500 SCISSORS, angled-on-flat, with blunt points, 6½ in., stainless steel .. each
G501 Ditto .. 7½ in. .. .. each



G504

G502 SCISSORS, DRESSING, straight, with blunt points and open shanks, 5 in., stainless steel .. .. each
G503 Ditto .. 6 in. .. .. each
G504 Ditto .. 7 in. .. .. each
G505 Ditto .. 8 in. .. .. each
*G506 SCISSORS, DRESSING, straight, with one blunt and one sharp point, open shanks, 5 in., stainless steel .. .. each
G507 Ditto .. 6 in. .. .. each
G508 Ditto .. 7 in. .. .. each
G509 Ditto .. 8 in. .. .. each



G511

G510 SCISSORS, DRESSING, with crank-bend shanks, black enamelled bows, 7 in., polished carbon steel .. .. each
G511 Ditto .. 8 in. .. .. each
G512 Ditto .. 9 in. .. .. each

**Not illustrated*

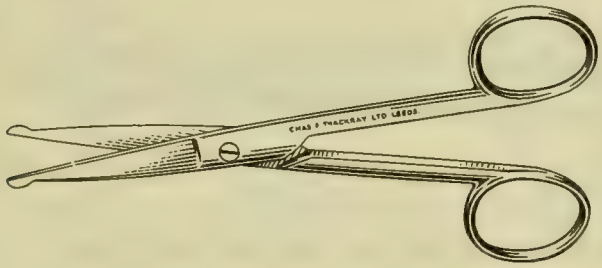
SCISSORS



G513

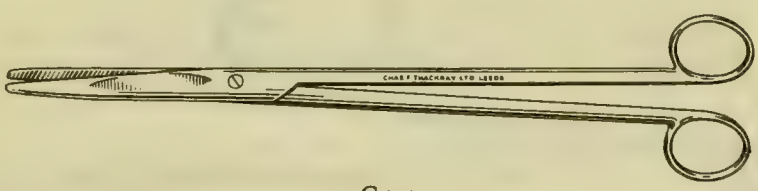
Cat. No.

G513 SCISSORS, straight, with one sharp and one probe point, 5 in., stainless steel, each



G514

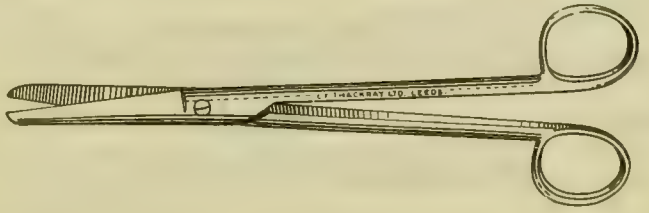
G514 SCISSORS, straight, with probe points, 5 in., stainless steel .. each



G515

G515 ABEL'S ABDOMINAL SCISSORS, straight, with blunt points and chamfered blades, 12½ in., stainless steel .. .. each

Used in the abdomino-perineal operation for excision of the rectum.



G516

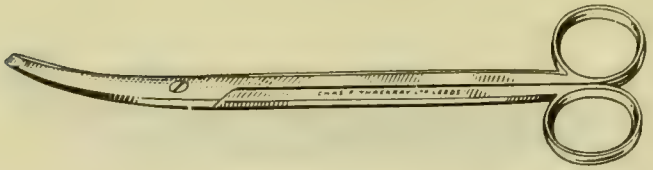
G516 CARLESS' SCISSORS, straight, lightweight, with blunt points, 6½ in., stainless steel .. .. each

G517 Ditto .. curved-on-flat .. .. each

**Not illustrated*

GENERAL OPERATION INSTRUMENTS

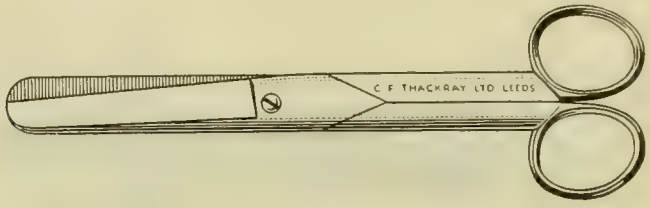
SCISSORS



G518

Cat. No.

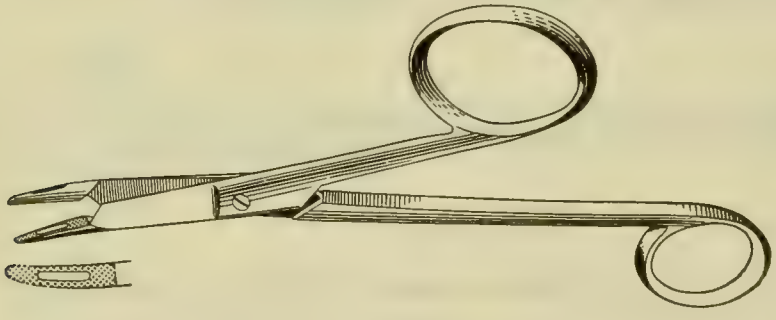
G518 DEVINE'S SCISSORS, curved-on-flat, with chisel-ended blades, 7 in., stainless steel .. .. each



G519

G519 DOYEN'S SCISSORS, straight, extra heavy, with blunt points, 7 in., stainless steel .. .. each

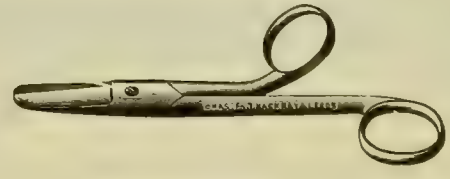
*G520 Ditto .. curved-on-flat .. .. each



G521

G521 GILLIES' SCISSORS and NEEDLE HOLDER combined, 6¼ in., stainless steel, each

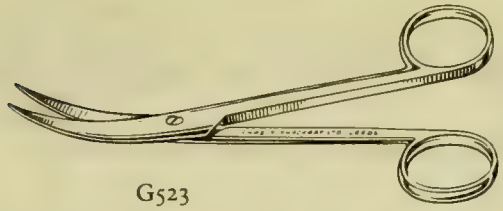
Can also be made for left hand use.



G522

G522 KOCHER'S SUTURE SCISSORS, 5¾ in., stainless steel .. .. each

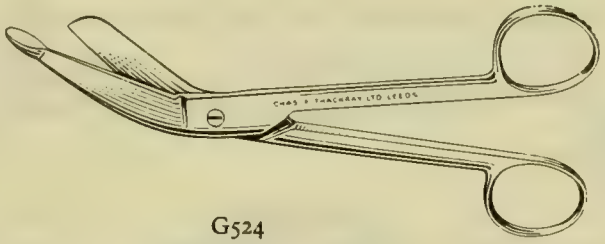
**Not illustrated*



G523

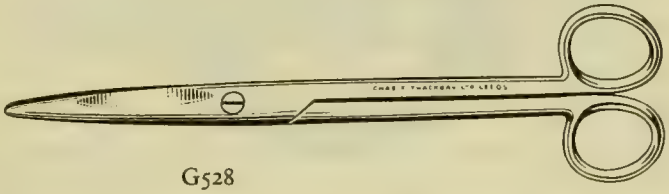
Cat. No.

G523 "LEEDS" PATTERN STITCH SCISSORS, curved-on-flat, with sharp points, 5½ in., stainless steel .. .. each



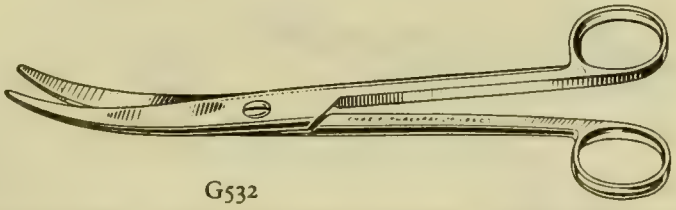
G524

G524 LISTER'S BANDAGE SCISSORS, angled laterally, with flattened probe-end on lower blade, 7 in., stainless steel .. .. each



G528

G526 MAYO'S SCISSORS, straight, with chamfered blades and blunt points, 5½ in., stainless steel .. .. each
G527 Ditto .. 6½ in. .. .. each
G528 Ditto .. 7½ in. .. .. each
G529 Ditto .. 8½ in. .. .. each



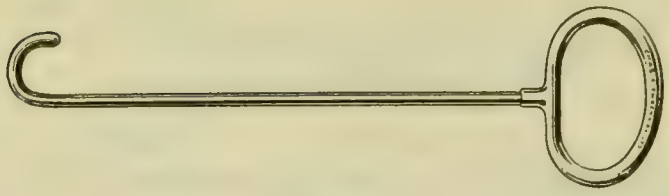
G532

G530 MAYO'S SCISSORS, curved-on-flat, with chamfered blades and blunt points, 5½ in., stainless steel .. .. each
G531 Ditto .. 6½ in. .. .. each
G532 Ditto .. 7½ in. .. .. each
G533 Ditto .. 8½ in. .. .. each
*G534 Ditto .. angled-on-flat, 6½ in. .. .. each
*G535 Ditto .. .. 7½ in. .. .. each
*G536 Ditto .. angled laterally, 5½ in. .. .. each

Not illustrated

GENERAL OPERATION INSTRUMENTS

RETRACTORS



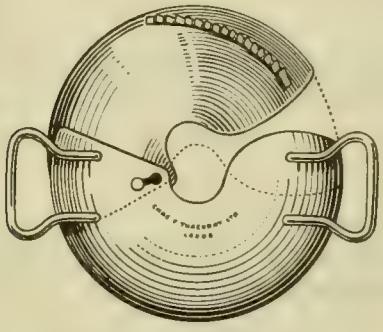
G537

Cat. No.

G537 HAMILTON BAILEY'S HOOK RETRACTOR, 10½ in., stainless steel .. each

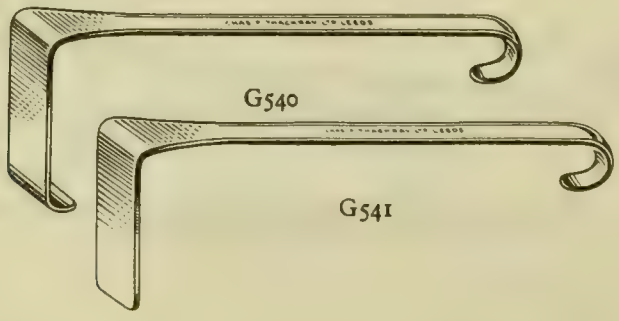
G538 Ditto .. 8¼ in. .. .. each

Fig. G538 is also a useful wound stretcher.



G539

G539 BLAKE'S AMPUTATION RETRACTOR, chromium plated .. .. each



G540

G541

G540 BURGESS' RETRACTOR, with lipped blade 1 in. wide, four sizes: 2 in., 3 in., 4 in. and 5 in. deep, stainless steel .. .. each

G541 Ditto .. with plain blade .. .. each

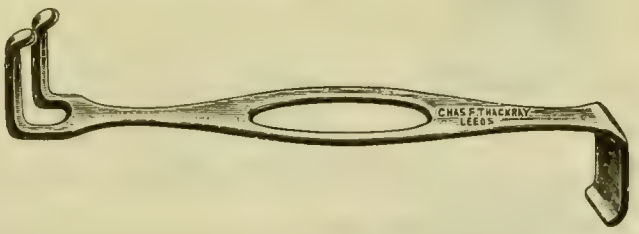
RETRACTORS



G542

Cat. No.

G542 CHEEK RETRACTOR, chromium plated .. .. each



G543

G543 CZERNY'S RETRACTOR, double-ended blades $\frac{7}{8}$ in. wide, stainless steel, each



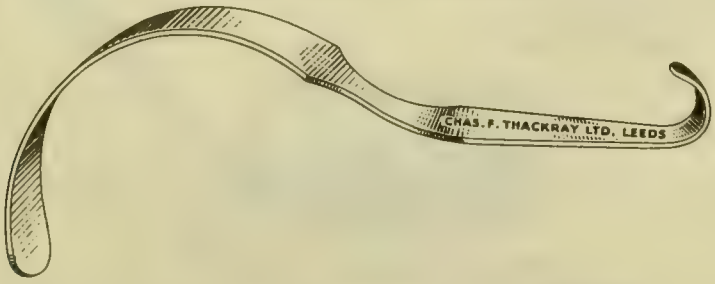
G544

G544 CRILE'S RETRACTOR (or Walton's), malleable, polished copper, 10 in., sizes: $\frac{1}{2}$ in., $\frac{3}{4}$ in. and 1 in. wide .. .. each

G545 Ditto .. sizes: $1\frac{1}{4}$ in. and $1\frac{1}{2}$ in. wide .. .. each

G546 CRILE'S RETRACTOR, malleable, polished copper, 7 in., sizes $\frac{1}{2}$ in., $\frac{3}{4}$ in. and 1 in. wide .. .. each

Originally designed for brain surgery.



G547

G547 DEAVER'S RETRACTOR, 12 in. by 2 in., stainless steel .. .. each

G548 Ditto .. 12 in. by 1 in. .. .. each

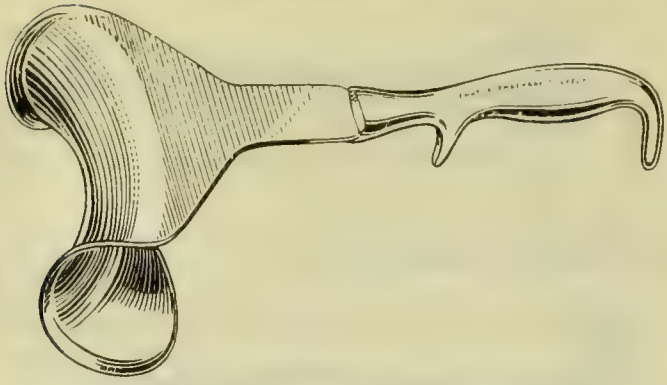
G549 Ditto .. 10 in. by 1 in. .. .. each

G550 Ditto .. 9 in. by 1 in. .. .. each

Used particularly for the liver and kidney.

GENERAL OPERATION INSTRUMENTS

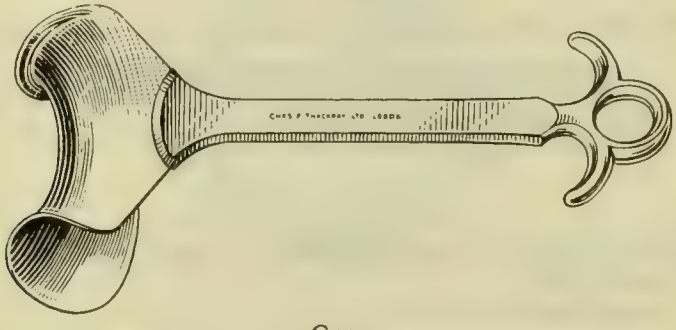
RETRACTORS



G551

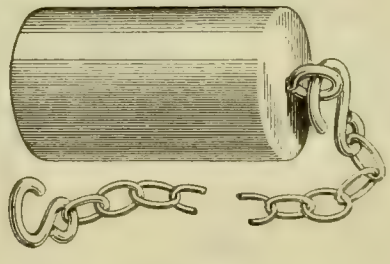
Cat. No.

G551 DOYEN'S RETRACTOR, with chromium plated shaped hollow handle and stainless steel blade 4½ in. wide .. .. each
G552 Ditto .. blade 4 in. wide .. .. each
G553 Ditto .. blade 3½ in. wide .. .. each



G554

G554 DOYEN'S RETRACTOR, with chromium plated solid bar handle and stainless steel blade 4½ in. wide .. .. each
G555 Ditto .. blade 4 in. wide .. .. each
G556 Ditto .. blade 3½ in. wide .. .. each

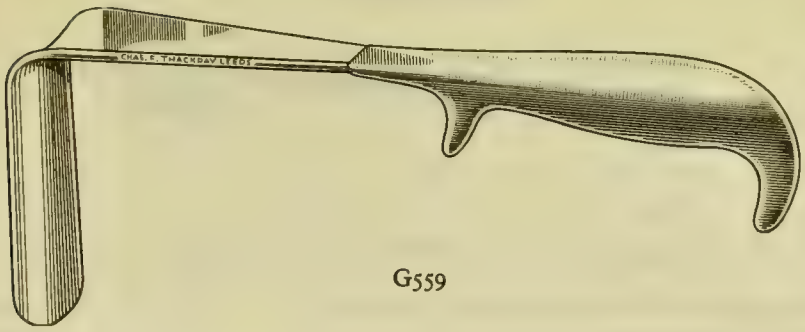


G557

G557 WEIGHT AND CHAIN, for use with Fig. G554, chromium plated .. each
*G558 RETRACTOR STAND, with adjustable fixing bar, for use with Fig. G554, chromium plated .. .. each

Not illustrated

RETRACTORS



G559

Cat. No.

G559 DOYEN'S RETRACTOR, with chromium plated shaped hollow handle and stainless steel blade 3½ in. deep by 1⅞ in. wide .. .. .. each

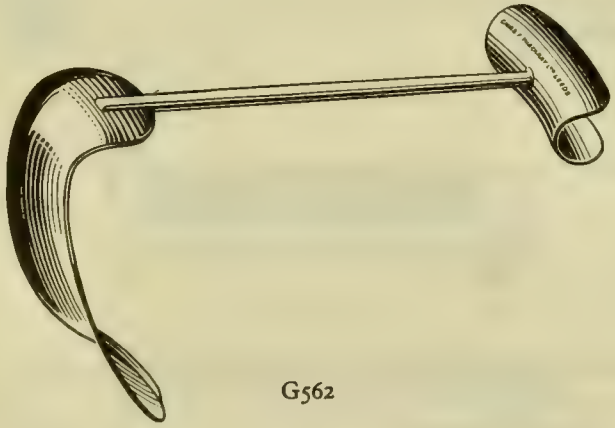
G560 Ditto .. blade 2⅜ in. deep by 1⅞ in. wide .. .. each

Used particularly for the vagina.



G561

G561 DURHAM'S RETRACTOR, with blade ⅜ in. wide, stainless steel .. each



G562

G562 DYBALL'S RETRACTOR, with blade 4¾ in. deep by 2½ in. wide, stainless steel, each

Originally designed for the liver.

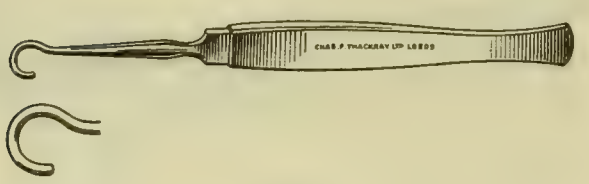


G563

G563 FARABEUF'S RETRACTOR, with blade 1 in. wide, stainless steel .. each

G564 Ditto .. blade ½ in. wide .. .. each

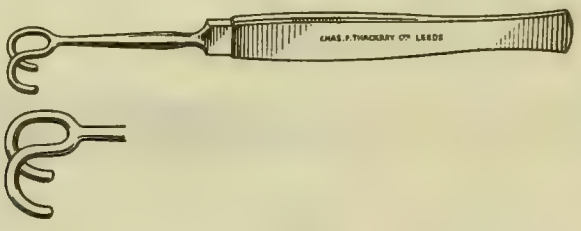
RETRACTORS



G565

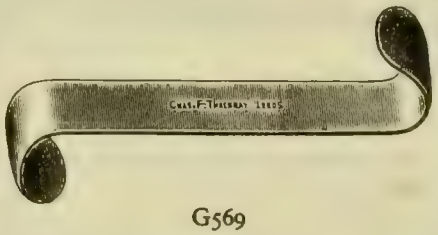
Cat. No.

G565	HOOK RETRACTOR, single, blunt, stainless steel	each
*G566	Ditto .. sharp point	each



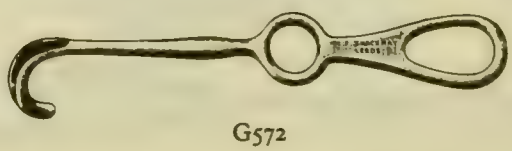
G567

*G567	HOOK RETRACTOR, double, blunt, stainless steel	each
G568	Ditto .. sharp points	each



G569

G569	HOOK RETRACTOR, double-ended, ½ in. and ¼ in. wide, stainless steel ..	each
G570	Ditto .. 1 in. and 1¼ in. wide	each
G571	Ditto .. 1½ in. and 1¾ in. wide	each



G572

G572	KELLY'S RETRACTOR, with solid blade ½ in. wide, stainless steel ..	each

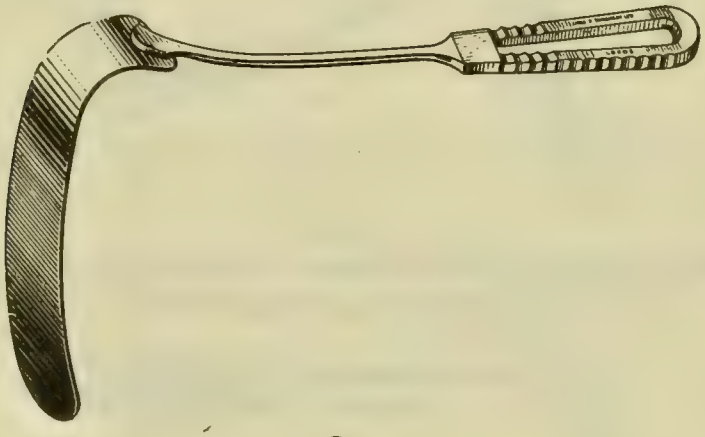
**Not illustrated*



G573

Cat. No.

G573 KELLY'S RETRACTOR, with double prongs 1 in. wide, stainless steel .. each

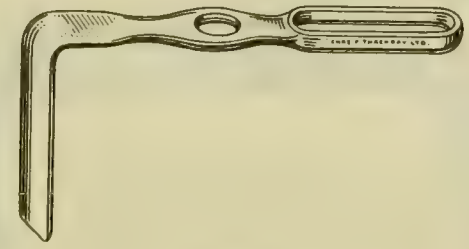


G574

G574 KELLY'S RETRACTOR, with blade 7½ in. deep by 1½ in. wide, stainless steel, each

G575 Ditto .. blade 7½ in. deep by 2¼ in. wide .. .. each

Used particularly for the liver and kidney

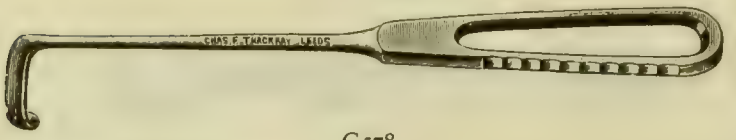


G576

G576 LANDON'S RETRACTOR, with blade 3½ in. deep by 1 in. wide, chromium plated .. .. each

G577 Ditto .. stainless steel .. .. each

RETRACTORS

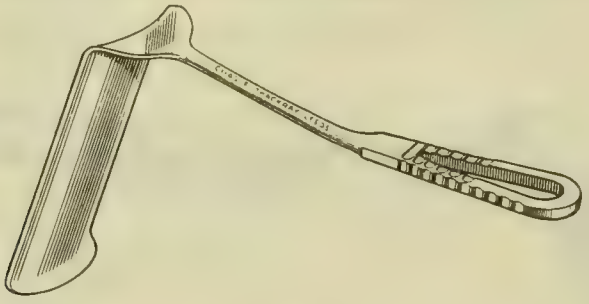


G578

Cat. No.

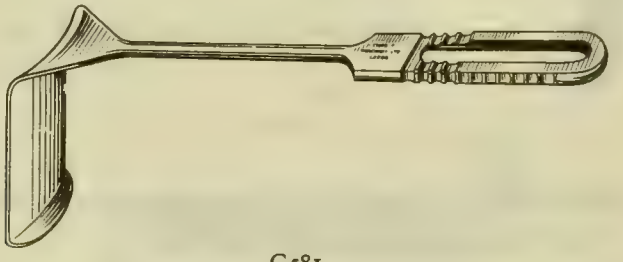
G578 LANGENBECK'S RETRACTOR, with blade $\frac{7}{8}$ in. deep by $\frac{1}{4}$ in. wide, stainless steel .. .. each

G579 Ditto .. blade $1\frac{3}{4}$ in. deep by $\frac{1}{2}$ in. wide .. .. each



G580

G580 MORRIS' RETRACTOR, with single blade 6 in. deep by 3 in. wide, stainless steel .. .. each

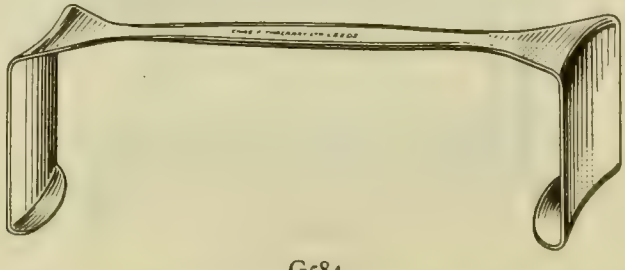


G581

G581 MORRIS' RETRACTOR, with single blade $2\frac{3}{4}$ in. deep by $1\frac{1}{2}$ in. wide, stainless steel .. .. each

G582 Ditto .. blade $2\frac{3}{4}$ in. deep by 2 in. wide .. .. each

G583 Ditto .. blade $2\frac{3}{4}$ in. deep by $2\frac{1}{2}$ in. wide .. .. .. each



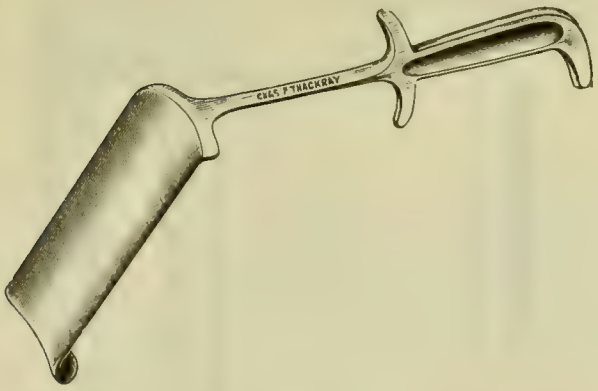
G584

G584 MORRIS' RETRACTOR, with double blades $2\frac{3}{4}$ in. deep, $1\frac{1}{2}$ in. and $1\frac{1}{4}$ in. wide, stainless steel .. .. each

G585 Ditto .. blades $2\frac{3}{4}$ in. deep, 2 in. and $1\frac{3}{4}$ in. wide .. .. .. each

G586 Ditto .. blades $2\frac{3}{4}$ in. deep, $2\frac{1}{2}$ in. and $2\frac{1}{4}$ in. wide .. .. each

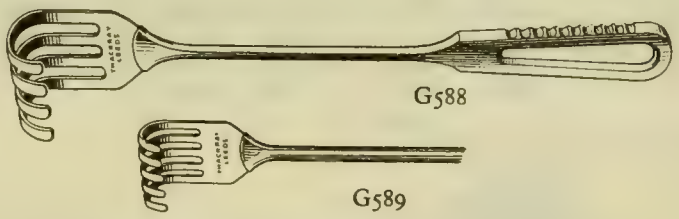
RETRACTORS



G587

Cat. No.

G587 NUTHALL'S RETRACTOR, with blade 5 in. deep by 2¼ in. wide, set at an oblique angle to shaft, stainless steel .. .. each



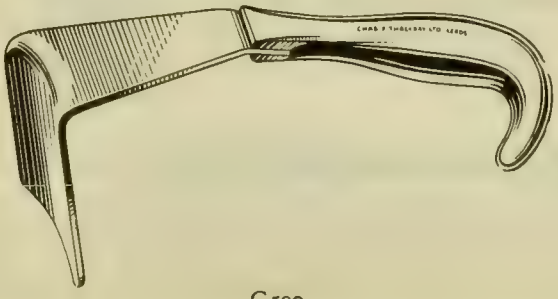
G588

G589

G588 OLDFIELD'S RETRACTOR, with four-prong broad blade 2 in. wide, stainless steel .. .. each

G589 Ditto .. five-prong narrow blade 1⅝ in. wide .. .. .. each

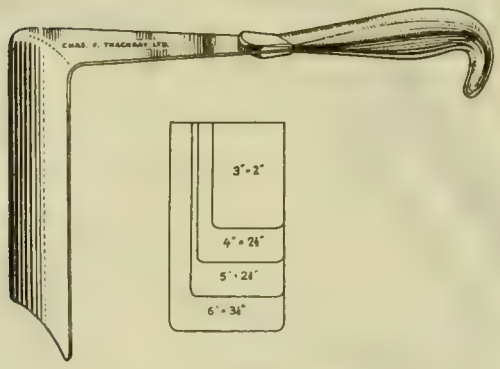
Originally designed for use in radical mastectomy.



G590

G590 PROUST'S RETRACTOR, with chromium plated shaped solid handle and stainless steel blade 2½ in. deep by 1¾ in. wide .. .. each

This instrument was originally designed for retracting the rectum in perineal prostatectomy.



G591

Cat. No.

G591 PYRAH'S RETRACTOR, with chromium plated shaped hollow handle and stainless steel blade. Eleven sizes.

RANGE OF SIZES:

Depth	*Width*	*Depth*	*Width*	*Depth*	*Width*	*Depth*	*Width*
3⅛ in.	½ in.	3½ in.	1¼ in.	3 in.	2 in.	5 in.	2¾ in.
3¼ in.	¾ in.	3½ in.	1½ in.	4 in.	2 in.	6 in.	3¼ in.
3¼ in.	1 in.	3¾ in.	1¾ in.	4 in.	2½ in.		

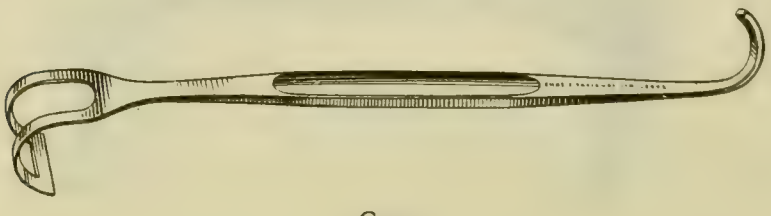
each

G591A Complete Set of the above .. .. per set



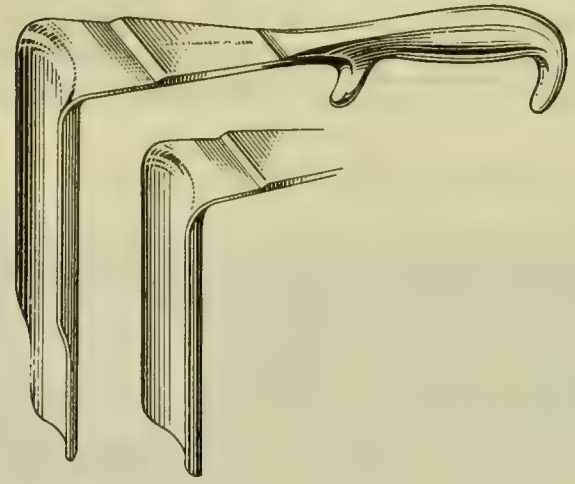
G592

G592 CANNY RYALL'S (Army Pattern) RETRACTOR, double-ended, single blunt hook and double blunt hooks, two sizes nested in pairs, stainless steel .. each



G593

G593 CANNY RYALL'S (Navy Pattern) RETRACTOR, double-ended, single hook blade 3/16 in. wide and fenestrated blade in four sizes: ⅝ in., ¾ in., 1 in. and 1¼ in. wide, stainless steel .. .. each



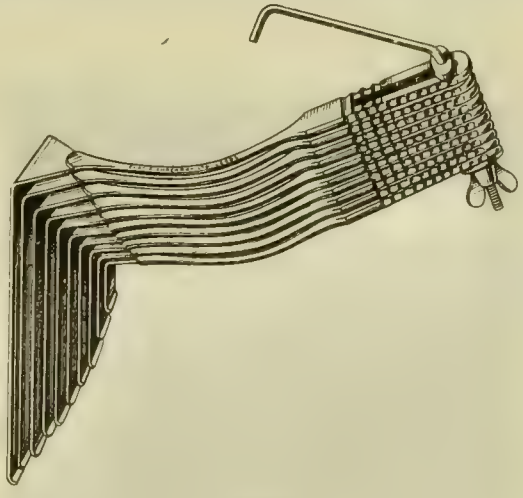
G594 G595

Cat. No.

G594 ST. MARK'S HOSPITAL PATTERN RETRACTOR, with chromium plated shaped hollow handle and stainless steel blade 7 in. deep by $2\frac{3}{8}$ in. wide, shaped at end .. .. each

G595 Ditto .. blade 5 in. deep by $2\frac{3}{8}$ in. wide .. .. each

Used in the abdomino-perineal operation for excision of the rectum.



G596

G596 SHUCKSMITH'S RETRACTORS, set of ten, nested and conveniently fixed for sterilizing by a nut and bolt, stainless steel. Range of blade sizes are as follows: 17 cm. by 8 cm.; 16 cm. by 7 cm.; 14 cm. by 6 cm.; 12.5 cm. by 5.5 cm.; 11 cm. by 5 cm.; 9.5 cm. by 4 cm.; 8 cm. by 3 cm.; 6.5 cm. by 2 cm.; 5 cm. by 1.25 cm.; 3 cm. by 1.25 cm. .. .. per set

These retractors have been designed to meet the need for a standard range of sizes useful in a variety of general operations. The shape of blade, curve of shaft and grip of handle have been carefully studied to provide the maximum efficiency and comfort in use.

GENERAL OPERATION INSTRUMENTS

RETRACTORS

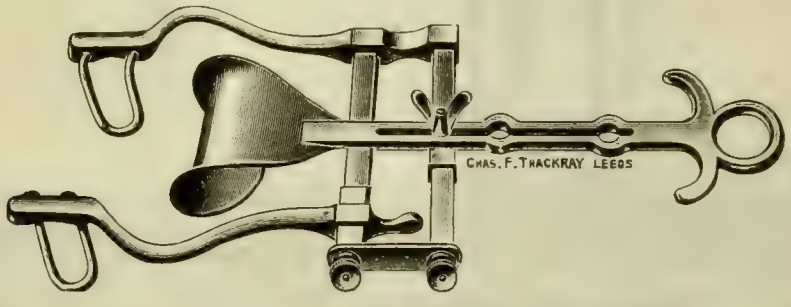


G598

Cat. No.

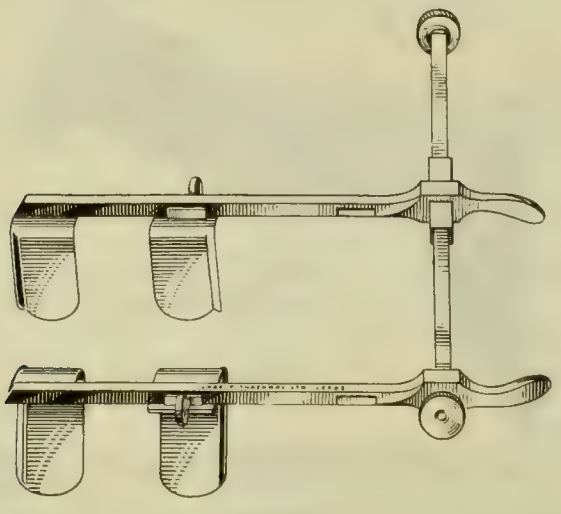
G597 VOLKMANN'S RETRACTOR, with sharp, five-prong blade $\frac{7}{8}$ in. wide, stainless steel .. .. each

G598 Ditto .. four-prong blade $\frac{1}{2}$ in. wide .. .. each



G599

G599 BALFOUR'S RETRACTOR, self-retaining, with adjustable third centre blade, stainless steel .. .. each



G600

G600 COMYNS BERKELEY'S RETRACTOR, self-retaining, with two adjustable blades and two fixed blades, stainless steel .. .. each

*G601 Ditto .. but with automatic ratchet bar .. .. each

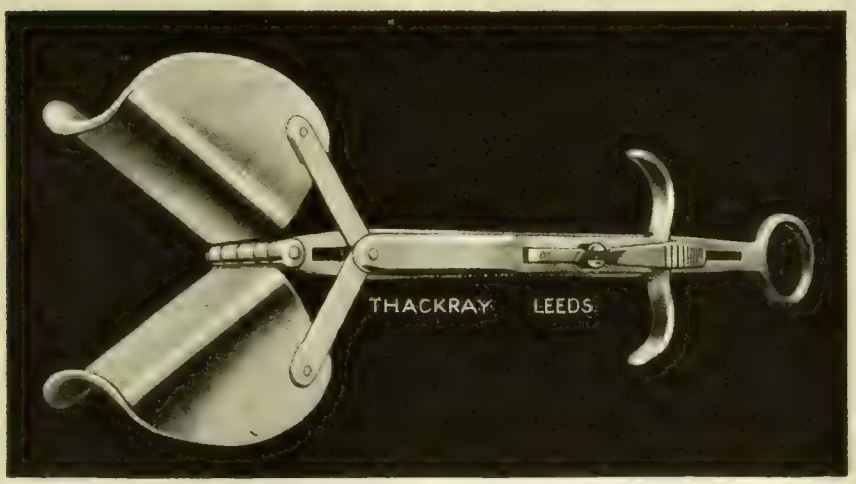
**Not illustrated*

Adjustable Abdominal Retractor

BY

KENNETH V. BAILEY, M.C., M.D.(Manch.), M.R.C.P.(Lond.), F.R.C.O.G.

Lecturer in Gynæcology, University of Manchester.



VIEW OF RETRACTOR WITH BLADES HALF OPEN.



END VIEW OF RETRACTOR WITH BLADES CLOSED

G602

(*See overleaf for description*)

BAILEY'S ADJUSTABLE ABDOMINAL RETRACTOR

The evolution of this instrument has come about as the result of a sort of chronic irritation of long standing in my mind due to the lack of an adequate abdominal retractor from the point of view of maximum access with minimum trauma for use particularly in pelvic operations.

Most gynæcological operators perhaps agree that a metal bladed and end-fitting retractor is to be preferred, as reflected light into the pelvic cavity is helpful. The lateral self-retaining type, such as Gosset's, is not so good in this respect, although quite popular with many operators, and often needs to be supplemented by the use of a small Doyen at the lower angle of the incision. Moreover, this type exerts great lateral pressure on the recti muscles, and must to a certain extent interfere with their blood supply in the areas of contact. Alternatively the Doyen type is commonly used and although this is satisfactory in many ways, its obvious disadvantages seem to me to be concerned with: (1) Its lack of adjustability. (2) Its interference with access. (3) Its liability to produce trauma to the recti muscles.

In the retractor which I am presenting I consider that these salient faults are largely overcome. The instrument consists of two apposed flattened metal blades joined by a mesial hinge. Each blade is 2¾ in. long by 2 1/16 in. deep and is surmounted by an upper curved and flattened expansion bent at right angles to the main blades so as to fit closely to the skin surface of the incision. This expansion extends to a maximum distance of 1⅜ in. laterally. Each blade is flanged outwards along its lower edge so as to control the under surface of the abdominal wall and further flanged inwards along its vertical edge and the junction between this and the upper horizontal expansion so as to mitigate against sharp contact with the recti muscles when the blades are opened. Thus there is a maximum divergence of their lower edges of 1⅜ in. with the blades approximated.

The blades are controlled by a ratchet which is carried on a rigid metal arm extending from the hinge at the back of the blades for a distance of 9½ in. and terminating in a ring from which a chain and weight can be attached to maintain position. The ratchet is manually controlled by a finger bar attached to it.

The retractor is introduced into the incision with the blades approximated and opened as necessary by traction on the ratchet finger bar. The posterior edges of the vertical blades remain apposed at the hinge, while the anterior edges become separated from complete approximation up to a maximum separation of over 5 in. This can be effected by means of the ratchet in 20 distinct stages.

The *ADJUSTABILITY* of this retractor:

(1) Enables one instrument to be of service for varying lengths of incision. Owing to the shortness of the blades themselves, 2¾ in., this retractor can be introduced into an incision as short as 3½ in. and opened to a certain extent to allow access for various conservative pelvic operations. The length of the average lower abdominal incision for more extensive work being about 5½ in., the same retractor opened more widely can thus be used with equal facility. (2) Many operations can be carried out with the retractor half-open. Particularly is this useful when the recti muscles are either strongly developed or inadequately relaxed.

The *ACCESS* produced by this retractor is advantageous. The degree of opening of the blades necessary in the average case is a separation of 3¾ to 4 in. At this degree the vertical blades pass backwards in a deep V, thus allowing the apposed posterior edges at the hinge to fit conveniently into the lower angle of the incision above the symphysis. Consequently there is no wasted space behind the retractor, thus facilitating access. I found that with a 6 in. abdominal incision the distance from its upper end to the mid-point of this retractor was 1½ in. greater than that to mid-point of the medium-sized Doyen type. Also that the flanged edges of the blades approximated to the same point on the recti muscles as did the edges of the Doyen. Thus the longitudinal access is increased to this appreciable extent.

The question of *TRAUMA* is important. I would say that the Doyen type is a rigid flat blade which cannot fit accurately into the lower angle of the incision. There is always a space behind it and the symphysis. It therefore encroaches on the space provided by the incision and moreover at its lower or pelvic end, and access is obtained by an inevitable overstretching of the recti muscles in consequence. Bruising and laceration is thus often produced, particularly in the thick walled or rigid case. With this adjustable retractor, however, the blades lie along the muscle edges, which ride more easily over the flanges. The degree of pressure can be adjusted and trauma thus avoided.

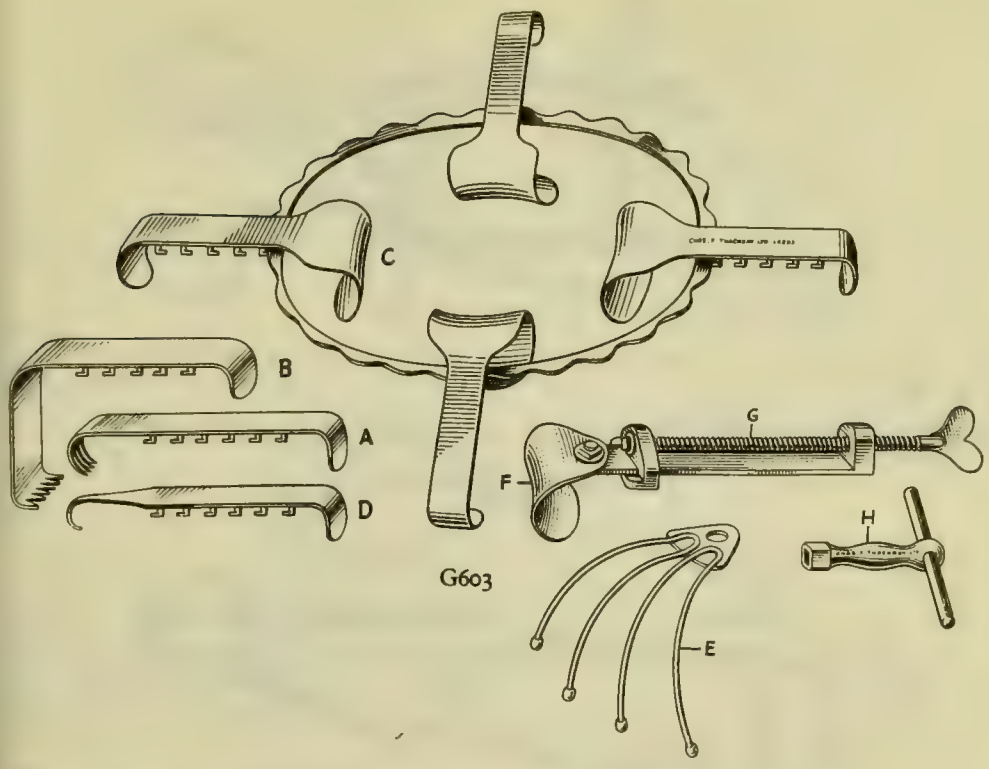
Owing to the accurate fit of this retractor it is only necessary to maintain its position by means of a light weight attached by a chain to the ringed end of the shaft. In cases of difficult access it is not necessary to exert forced traction on the instrument, as is the case with a Doyen type. This is in itself a further cause of trauma.

As described in *The Journal of Obstetrics and Gynæcology*, 1939, page 554.

Cat. No.

G602 BAILEY'S ADJUSTABLE ABDOMINAL RETRACTOR, stainless steel, each

NOTE.—*For illustrations see page* G87.



G603

Cat. No.

G603 DENIS BROWNE'S RETRACTOR, self-retaining, consisting of:

One Sprocket Frame, oval shaped, $7\frac{1}{4}$ in. by $5\frac{3}{4}$ in. (internal dimensions), stainless steel .. .. each

Four Curved Retractors (A), with "claw" ends, $\frac{1}{2}$ in. wide, stainless steel, each

Four Angled Retractors (B), with sharp-toothed ends, $\frac{3}{4}$ in. wide by $2\frac{1}{4}$ in. deep, stainless steel .. .. each

Four Broad Blade Retractors (C), $1\frac{3}{8}$ in. wide, stainless steel .. each

Two Hook Retractors (D), with sharp ends, stainless steel .. .. each

One Detachable Lung Retractor (E), stainless steel, with malleable wire ends .. .. each

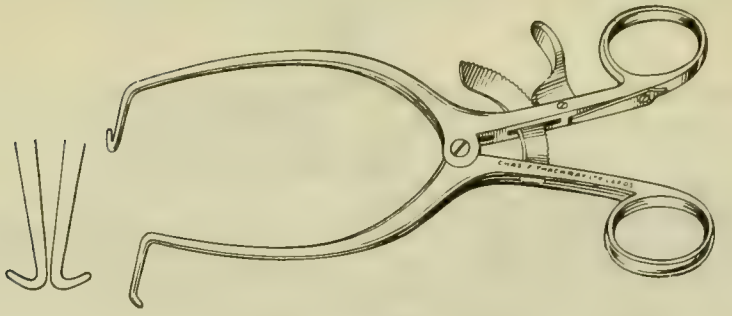
One Detachable Abdominal Blade (F), stainless steel .. .. each

One Shaft for above (G), with quick-travelling thread, stainless steel, each

One Spanner (H), to fit above shaft and detachable blades, stainless steel, each

Complete Set of all the above parts .. ..

This development of the frame retractor has an almost universal application. It can be used as a gag in cleft palate operations and for mastoidectomies, as well as for abdominal, bladder and thoracic work. It is possible with it to retract in any direction and, by means of using the screw blades, with any degree of force that may be necessary; and, in addition, retraction can be carried out in two or more planes simultaneously. An infinite number of different blades can be used upon it according to the needs of the operation and the surgeon.

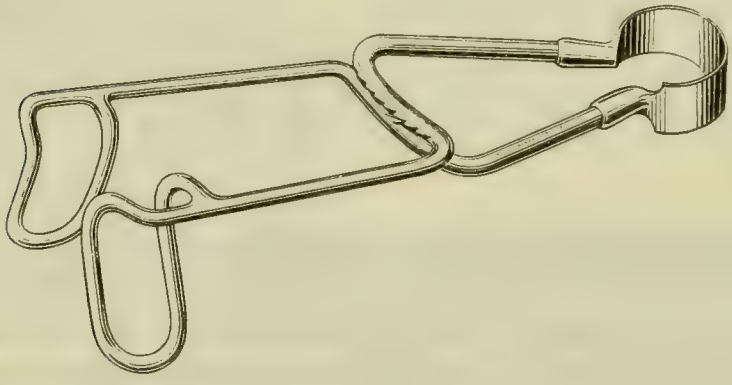


G604

Cat. No.

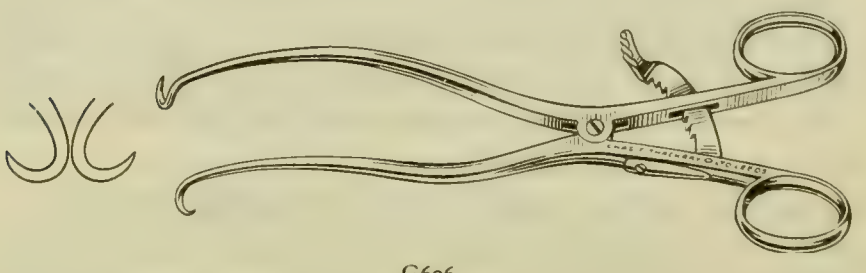
G604 JACKSON BURROWS' RETRACTOR, self-retaining, with blunt hook jaws and cam ratchet, stainless steel .. .. each

Originally designed for surgery of the knee joint.



G605

G605 DARTIGUES' RETRACTOR, self-retaining, stainless steel .. .. each



G606

G606 GELPI'S RETRACTOR, self-retaining, with sharp hook jaws, stainless steel, each

Originally designed for retracting the vulva.

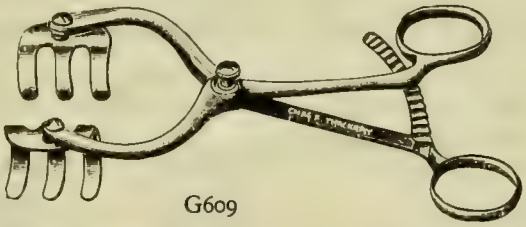
RETRACTORS



G607

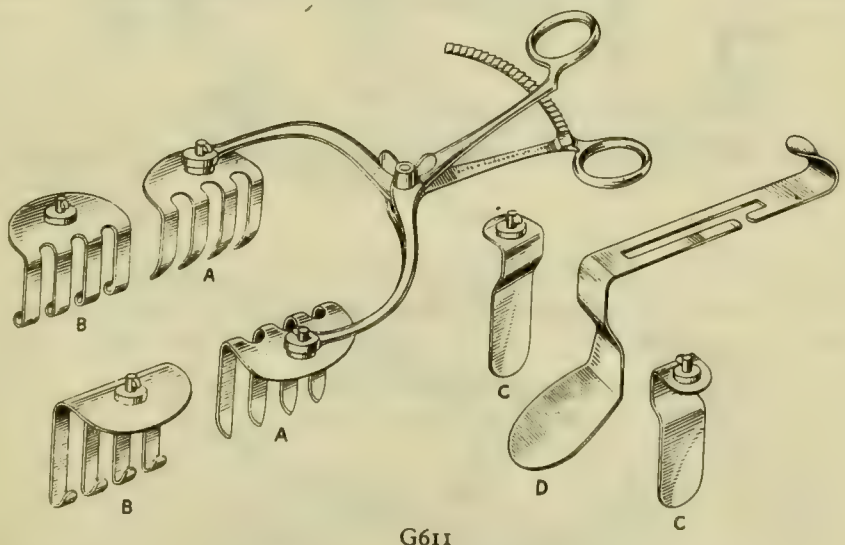
Cat. No.

G607 GOSSET'S RETRACTOR, self-retaining, stainless steel .. .. each
G608 Ditto .. small size .. .. each



G609

G609 LACE'S RETRACTOR, self-retaining, 6½ in. long, with swivel blades, stainless steel .. .. each
G610 Ditto .. 8½ in. long .. .. each

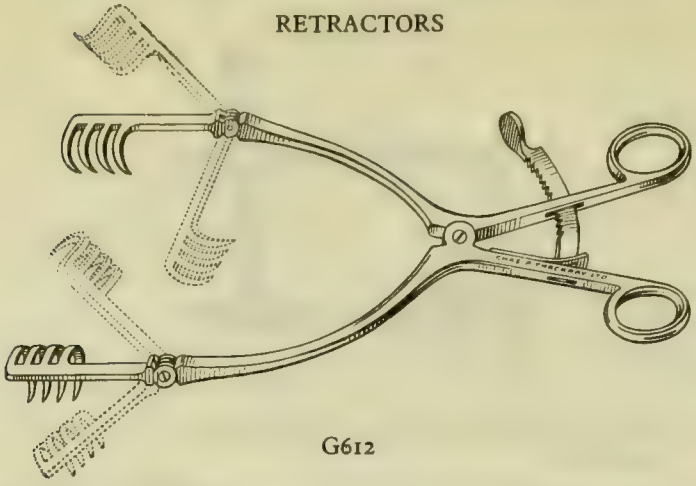


G611

G611 MODIFIED LACE'S RETRACTOR, self-retaining, complete set consisting of:
One Retractor, with take-off joint and adjusting nut, stainless steel .. each
Two Laminectomy Blades (A), stainless steel .. .. .. pair
Two Abdominal Blades (B), stainless steel .. .. .. pair
Two Thomson-Walker's Bladder Blades (C), stainless steel .. pair
One Millin's Bladder Blade (D), stainless steel .. .. .. each

This Retractor can be supplied complete or with blades to choice.

RETRACTORS

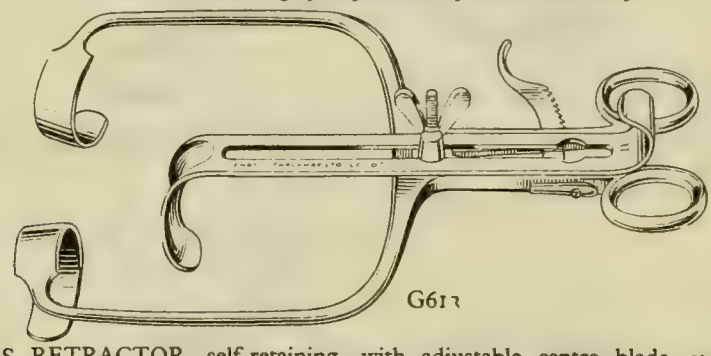


G612

Cat. No.

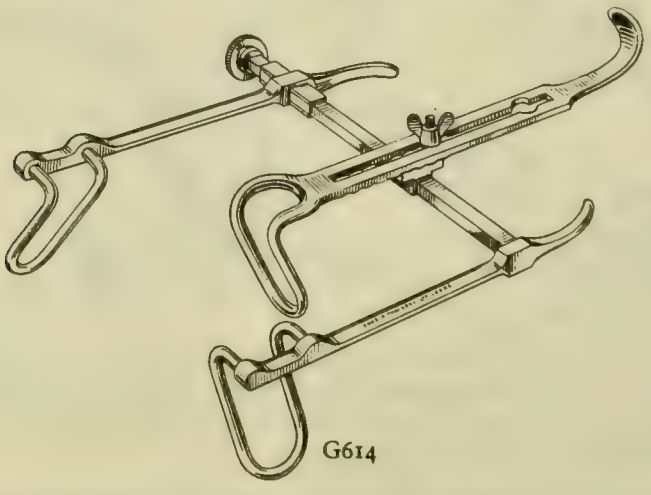
G612 MAYO'S RETRACTOR, self-retaining, with hinged arms and sharp four-prong blades, stainless steel .. .. each

The hinged arms allow the instrument to be held out of the surgeon's way. It is particularly useful in cranial surgery, thyroidectomy and laminectomy.



G613

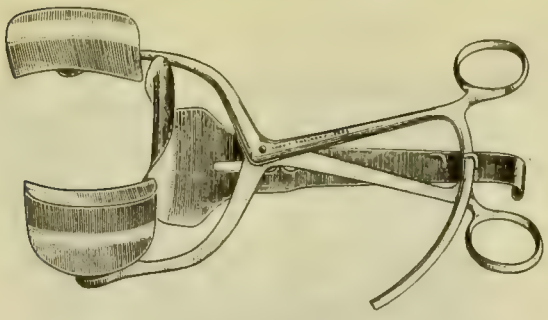
G613 MAYO'S RETRACTOR, self-retaining, with adjustable centre blade, stainless steel .. .. each



G614

G614 PANTING'S RETRACTOR, self-retaining, with adjustable centre blade, stainless steel .. .. each

RETRACTORS

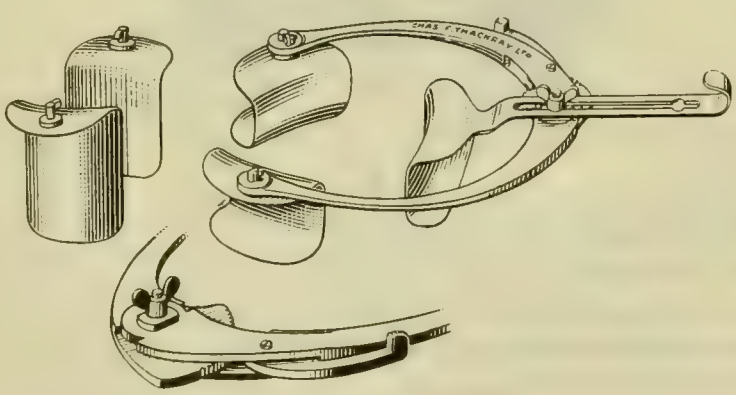


G615

Cat. No.

G615 POZZI'S RETRACTOR, self-retaining, with two detachable side blades and adjustable centre blade, stainless steel .. .. each

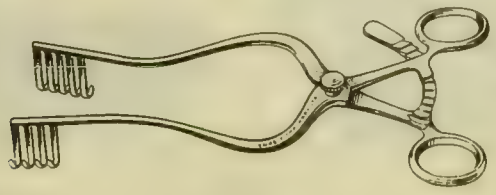
G616 Ditto .. without centre blade .. .. each



G617

†G617 RICARD-BÉGOUIN'S RETRACTOR (or Robin Massé's), self-retaining, with two of each shallow and deep detachable side blades, adjustable centre blade and swivel ratchet, stainless steel .. .. each

†Improved model with a stronger hinge (see inset) suggested by Mr. Alan Bibby, M.R.C.O.G.

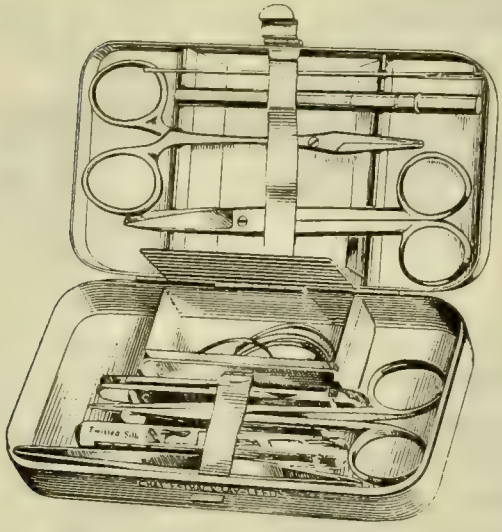


G618

G618 TRAVERS' RETRACTOR, self-retaining, 8 in. long, with blunt-prong blades, stainless steel .. .. each

GENERAL OPERATION INSTRUMENTS

MINOR SURGERY



G619

Cat. No.

G619 POCKET INSTRUMENT OUTFIT, in chromium plated hinged case, consisting of:

One Spencer Wells' Artery Forceps, 5 in., stainless steel.

One Sinus Forceps, 5 in., stainless steel.

One Dissecting Forceps, 5 in., stainless steel.

One Dressing Scissors, 5 in., stainless steel.

One Syme-Paget's Pocket Knife, stainless steel blades.

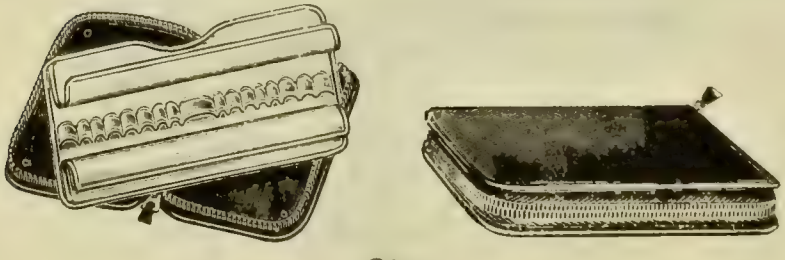
One Clinical Thermometer in case.

One Probe, 5 in., silver.

One Packet of Suture Needles, curved, triangular.

Sterile Silk, in sealed glass tube.

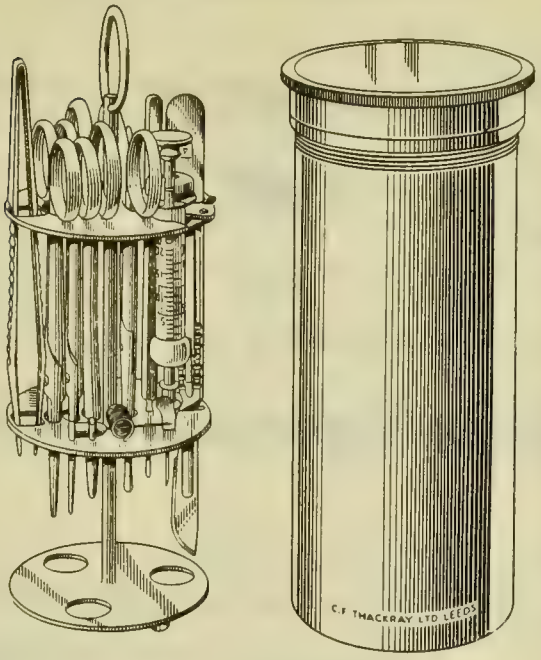
complete



G620

G620 POCKET INSTRUMENT CASE, black Morocco, with washable detachable lining, with loops for instruments .. .. each

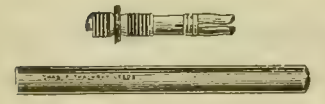
G621 Spare Linings for above .. .. each



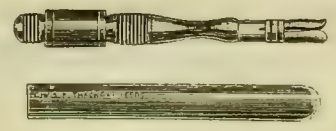
G622

Cat. No.

G622 MINOR SURGERY OUTFIT, in chromium plated spirit-proof case, consisting of:
One Spencer Wells' Artery Forceps, 5 in., stainless steel.
One Sinus Forceps, 5 in., stainless steel.
One Dissecting Forceps, 5 in., stainless steel.
One Dressing Scissors, 5 in., stainless steel.
One Stitch Scissors, 5 in., stainless steel.
One Eye Spud, stainless steel, chromium plated handle.
One Scalpel Handle.
One Packet of Scalpel Blades.
One Hypodermic Syringe, 20 min. 1 ml.
One Hypodermic Needle, stainless steel.
One Packet of Suture Needles, curved, triangular.
complete



G623



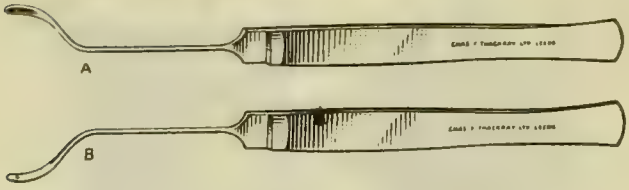
G624

G623 CAUSTIC HOLDER, with silver quill, for size four points, in nickel plated case, each

G624 Ditto .. in vulcanite case .. .. each

*G625 CAUSTIC POINTS, size four, to fit above holders, in boxes of three points, per box

Not illustrated

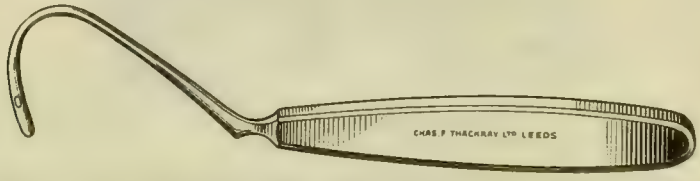


G626–7

Cat. No.

G626 DUPUYTREN'S ANEURYSM NEEDLE, curved-to-right, (A) 6¾ in., stainless steel .. .. each

G627 DUPUYTREN'S ANEURYSM NEEDLE, curved-to-left, (B) 6¾ in., stainless steel .. .. each



G628

G628 MOYNIHAN'S ANEURYSM NEEDLE, curved laterally, 7¼ in., stainless steel, chromium plated handle .. .. each

Designed for ligation of the mesenteric vessels.



G629

G629 SMALL ANEURYSM NEEDLE, curved laterally, 5¼ in., stainless steel, each

Particularly useful in "cutting down".



G630

G630 SYME'S ANEURYSM NEEDLE, curved laterally, 6¾ in., stainless steel, each

MISCELLANEOUS INSTRUMENTS



G631

Cat. No.

G631 PROBE, with eye, sizes: 5 in., 6 in., 7 in., 8 in., 9 in., 10 in. and 12 in., silver, each

G632 Ditto .. silver plated .. .. each



G633

G633 BRODIE'S DIRECTOR, probe-pointed, sizes: 5½ in., 6½ in. and 8 in., silver, each

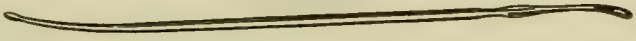
G634 Ditto .. nickel plated .. .. each

G635 Ditto .. stainless steel .. .. each



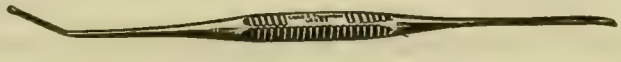
G636

G636 DIRECTOR-SCOOP, 5 in., nickel plated .. .. each



G637

G637 SHIELD'S DIRECTOR, PROBE and ANEURYSM NEEDLE COMBINED, 7 in., stainless steel .. .. each

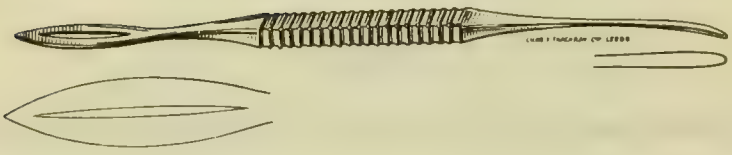


G638

G638 WATSON CHEYNE'S DISSECTOR-PROBE, 7 in., stainless steel .. each

GENERAL OPERATION INSTRUMENTS

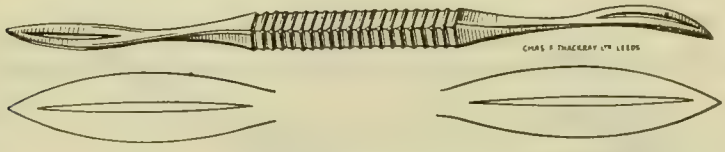
MISCELLANEOUS INSTRUMENTS



G639

Cat. No.

G639 DURHAM'S DISSECTOR-RASPATORY, 7½ in., stainless steel .. each



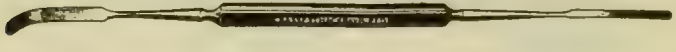
G640

G640 DURHAM'S DOUBLE RASPATORY, 7½ in., stainless steel .. each



G641

G641 KELLEY'S COMB DISSECTOR, 7½ in., stainless steel .. .. each



G642

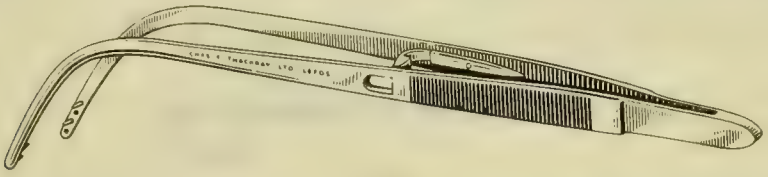
G642 MACDONALD'S DISSECTOR, 7½ in., stainless steel .. .. each



G643

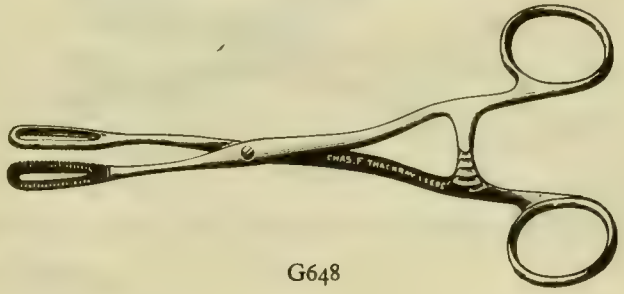
at. No.

G643 SPONGE HOLDER, with two-prong jaws, straight, 9 in., chromium plated, each
G644 Ditto .. curved-on-flat .. .. each
G645 SPONGE HOLDER, with three-prong jaws, straight, 9 in., chromium plated, each
G646 Ditto .. curved-on-flat .. .. each



G647

G647 KRAUSE'S SPONGE FORCEPS, 10¼ in., stainless steel .. .. each
Originally designed for laryngeal dressing.



G648

G648 RAMPLEY'S SPONGE FORCEPS, with serrated jaws, straight, screw joint, 7 in., stainless steel .. .. each
G649 Ditto .. 9½ in. .. .. each
G650 RAMPLEY'S SPONGE FORCEPS, with serrated jaws, straight, box joint, 7 in., stainless steel .. .. each
G651 Ditto .. 9½ in. .. .. each



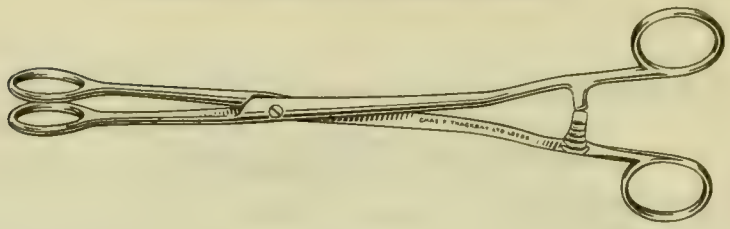
G652

G652 RAMPLEY'S SPONGE FORCEPS, with serrated jaws, curved-on-flat, screw joint 9½ in., stainless steel .. .. each

**Not illustrated*

GENERAL OPERATION INSTRUMENTS

MISCELLANEOUS INSTRUMENTS



G653

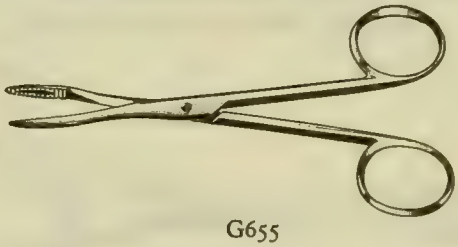
Cat. No.

G653 SPONGE FORCEPS, with smooth jaws, straight, screw joint, 9½ in., stainless steel .. .. each



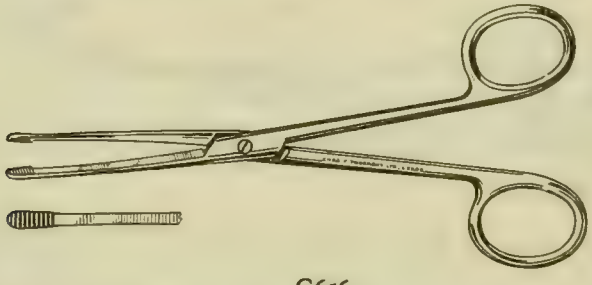
G654

G654 BRYANT'S DRESSING FORCEPS, screw joint, 5 in., stainless steel .. each



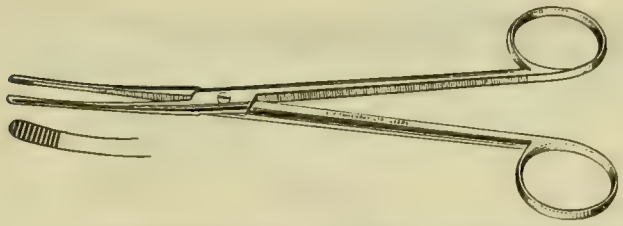
G655

G655 FRENCH PATTERN DRESSING FORCEPS, screw joint, 5 in., stainless steel, each



G656

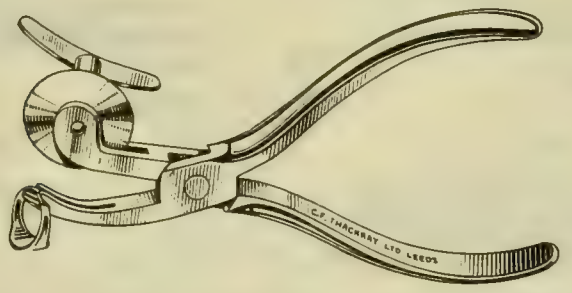
G656 LISTER'S SINUS FORCEPS, straight, screw joint, 5 in., stainless steel, each
G657 Ditto .. 6 in. .. .. each
G658 Ditto .. 7 in. .. .. each
G659 Ditto .. 8 in. .. .. each
G660 LISTER'S SINUS FORCEPS, straight, box joint, 5 in., stainless steel .. each
G661 Ditto .. 6 in. .. .. each
G662 Ditto .. 7 in. .. .. each
G663 Ditto .. 8 in. .. .. each



G664

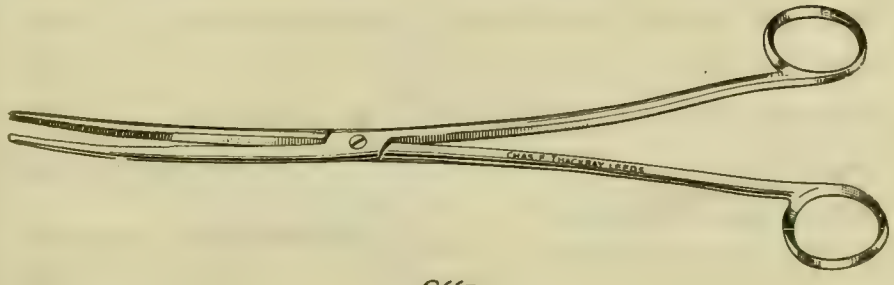
Cat. No.

G664 LISTER'S SINUS FORCEPS, curved-on-flat, screw joint, 7 in., stainless steel, each
Particularly useful in plastic surgery.



G665

G665 RING CUTTER, circular saw blade, chromium plated .. .. each
G666 Spare Saw Blades .. .. each

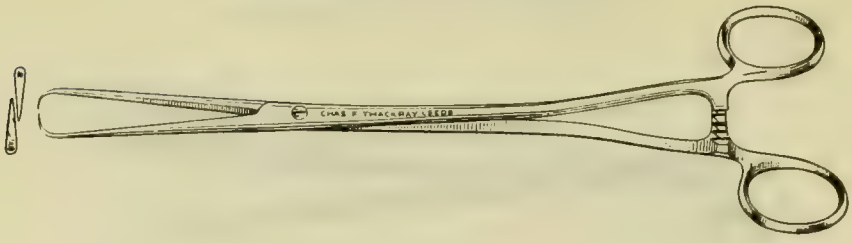


G667

G667 EGYPTIAN ARMY PATTERN BULLET FORCEPS, screw joint, 10 in., stainless steel .. .. each
G668 Ditto .. box joint .. .. each
Also used for uterine dressing.

GENERAL OPERATION INSTRUMENTS

MISCELLANEOUS INSTRUMENTS



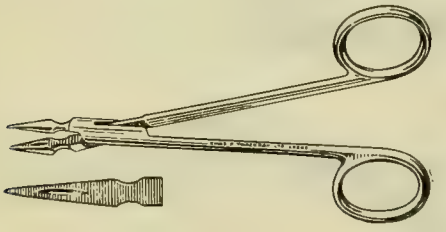
G669

Cat. No.

G669 LUER'S BULLET FORCEPS, screw joint, 9 in., stainless steel .. each

G670 Ditto .. box joint .. .. each

Also used as vulsellum forceps.



G671



G672

G671 ARTHUR'S SPLINTER FORCEPS, box joint, 4¼ in., stainless steel .. each

Also used as abscess forceps.

G672 HUNTER'S SPLINTER FORCEPS, 4 in., stainless steel .. .. each



G673



G675

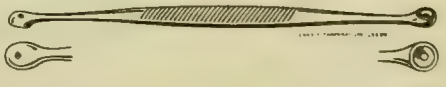
G673 MARTIN'S SPLINTER FORCEPS, 4½ in., stainless steel .. .. each

G674 Ditto .. 3½ in. .. .. each

G675 EPILATION FORCEPS, with square jaws, 3½ in., stainless steel .. each



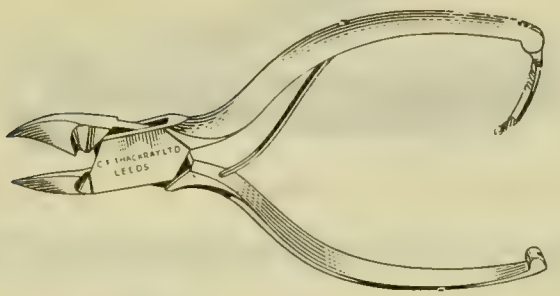
G676



G677

G676 WHITFIELD'S EPILATION FORCEPS, 4 in., stainless steel .. each

G677 UNNA'S COMEDO EXTRACTOR, 4¾ in., stainless steel .. .. each

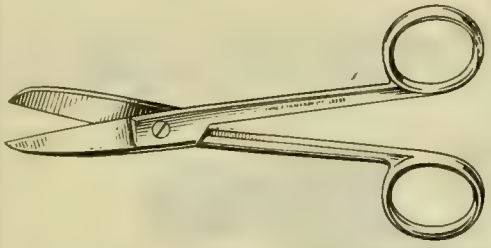


G679

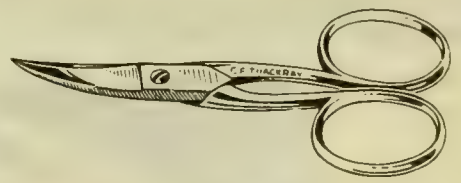
Cat. No.

G679 NAIL NIPPERS, with concave blades, box joint, 5 in., chromium plated, each

*G680 Ditto .. concave blades, 4½ in., nickel plated .. .. .. each



G681

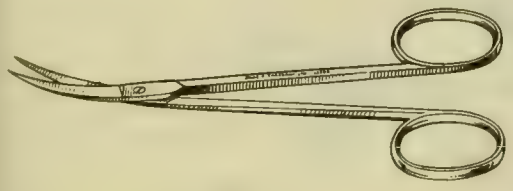


G682

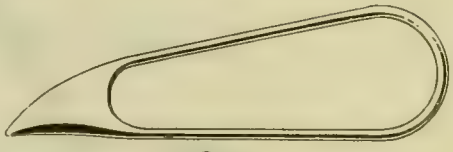
G681 TOE NAIL SCISSORS, 5½ in., stainless steel .. .. .. each

G682 NAIL SCISSORS, curved-on-flat, 3½ in., stainless steel .. .. each

G683 Ditto .. straight .. .. each



G684

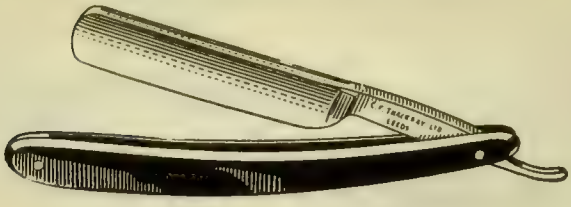


G685

G684 CUTICLE SCISSORS, curved-on-flat, 4 in., stainless steel .. each

G685 NAIL CLEANER, 3¾ in., stainless steel .. .. each

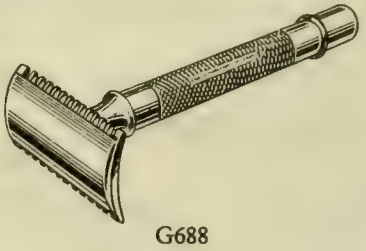
**Not illustrated*



G686

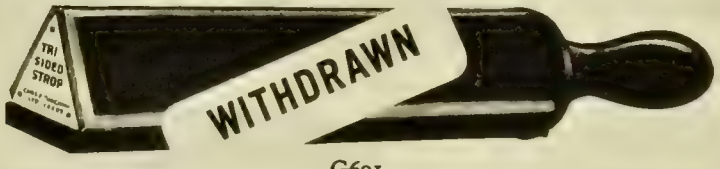
Cat. No.

G686 RAZOR, open type, with black vulcanite handle, hollow-ground blade .. each
G687 Ditto .. metal handle .. .. each



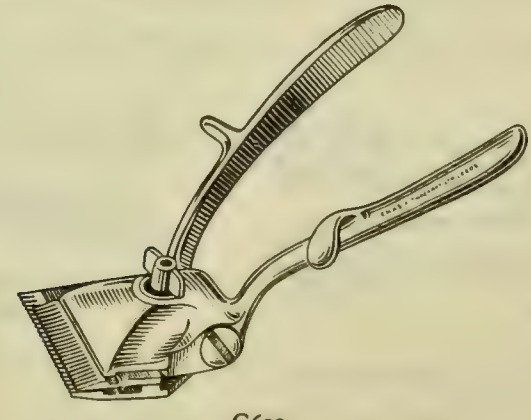
G688

G688 RAZOR, safety type, all metal, to fit slotted or three-holed type blades .. each
G689 BLADES for above, slotted type .. .. per pkt.
G690 Ditto .. three-holed type .. .. per pkt.



G691

G691 TRI-SIDED STROP, for knives, etc. .. .. each



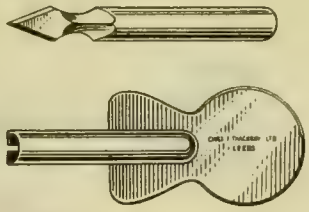
G692

G692 HAIR CLIPPERS, nickel plated, sizes: 0, 00, 000 and 0000 .. .. each

VACCINATION



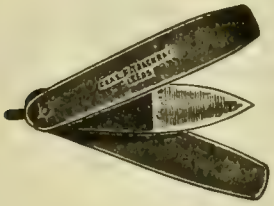
G693



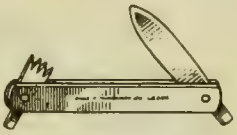
G694

Cat. No.

G693 VACCINE BLOWER, spherical, rubber .. .. each
G694 JENNER'S VACCINATION NIBS, dispensable, packed in boxes of twenty nibs complete with holder .. .. each



G695



G696

G695 BLEEDING LANCET, stainless steel blade, chromium plated sheath .. each
G696 LANCET AND SCARIFIER, stainless steel blades, chromium plated sheath, each



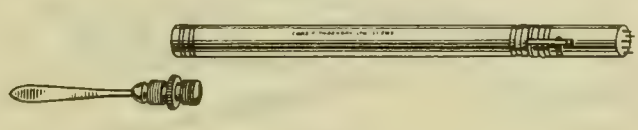
G697

G697 FRANKE'S LANCET, with spring-loaded stainless steel blade, chromium plated shaft .. .. each



G698

G698 PADBURY'S VACCINATOR, with puncture points and spatula, stainless steel, each



G699

G699 COOPER ROSE'S VACCINATOR, with puncture points and spatula, stainless steel, chromium plated case .. .. each
*G700 VACCINATION DRESSING, gauze, with tapes for tying, adults' size .. each
*G701 Ditto .. children's size .. .. each

Not illustrated

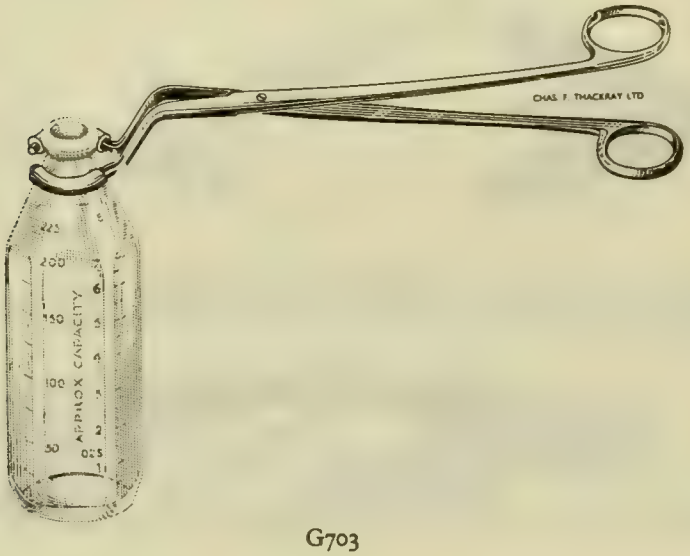
STERILIZER FORCEPS



G702

Cat. No.

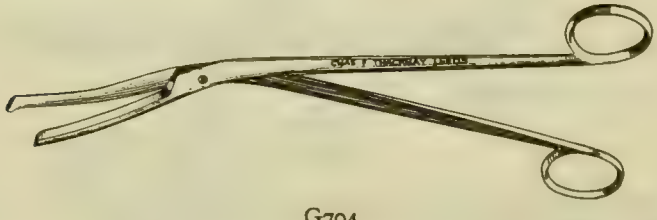
G702 STERILIZER TRAY LIFTERS, extra strong, solid cast gun metal, chromium plated 11 in. .. .. per pair



G703

G703 BOTTLE LIFTING FORCEPS (Regd. Des. 854132), screw joint, 11 in., stainless steel .. .. each

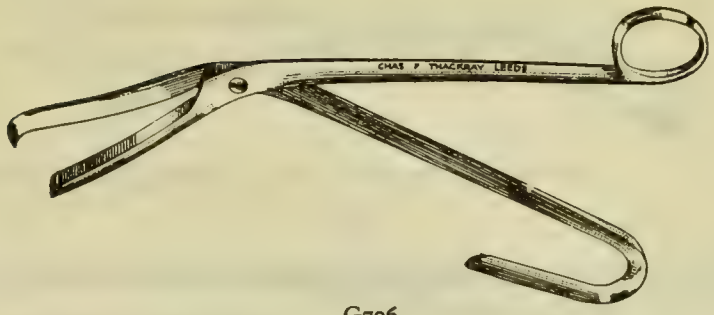
This instrument was originally designed for lifting babies' bottles from the sterilizer, but has proved very effective as general sterilizer forceps.



G704

G704 CHEATLE'S STERILIZER FORCEPS, screw joint, 10½ in., stainless steel, each

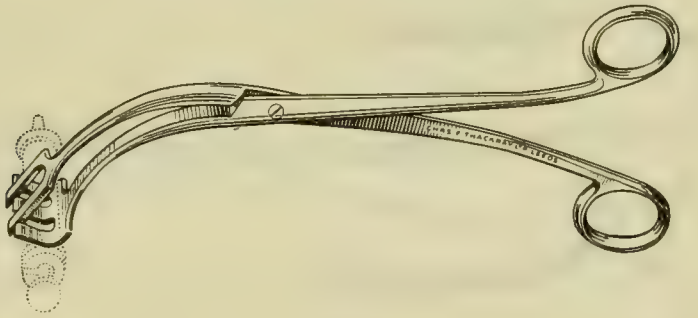
G705 Ditto .. box joint .. .. each



G706

Cat. No.

G706 CHEATLE'S STERILIZER FORCEPS, heavy pattern, screw joint, 11½ in. stainless steel .. .. each
G707 Ditto .. box joint .. .. each



G708

G708 "DUNDEE" PATTERN (or COLLINS') STERILIZER FORCEPS, screw joint, 11 in., stainless steel .. .. each

Particularly useful for lifting round articles such as catheters, sounds, syringes, etc.



G710

G709 HARRISON'S STERILIZER FORCEPS, for bowls, etc., with bow handles, screw joint, 10 in. stainless steel .. .. each
G710 Ditto .. with hook handle, 12 in. .. .. each
G711 Ditto .. ditto .. 14 in. .. .. each
G712 Ditto .. ditto .. 16 in. .. .. each
G713 Ditto .. ditto .. 18 in. .. .. each

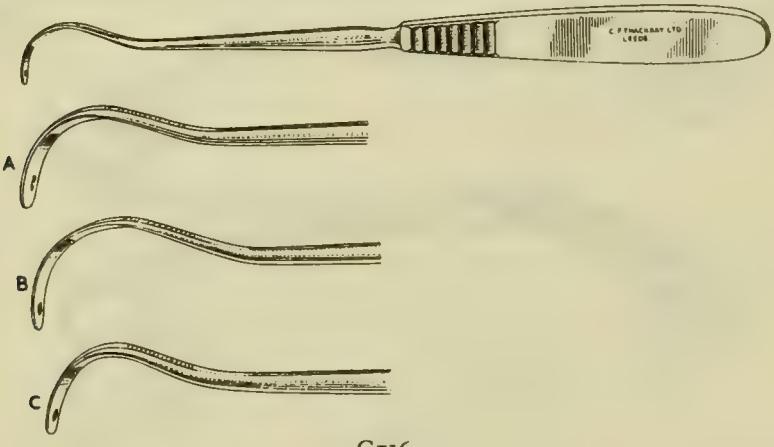


G714

Cat. No.

G714 LONDON HOSPITAL PATTERN STERILIZER FORCEPS, screw joint, 11½ in., stainless steel .. .. each

G715 Ditto .. box joint .. .. each



G716

G716 JOLL'S THYROID ANEURYSM NEEDLES, three shapes: A, B and C, solid forged, stainless steel .. .. each



G717

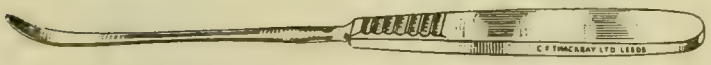
G717 KOCHER'S THYROID DISSECTOR, solid forged, stainless steel .. each

G718 Ditto .. with eye at point .. .. each



G719

G719 KOCHER'S THYROID DISSECTOR, fully curved, with eye at point, solid forged, stainless steel .. .. each



G720

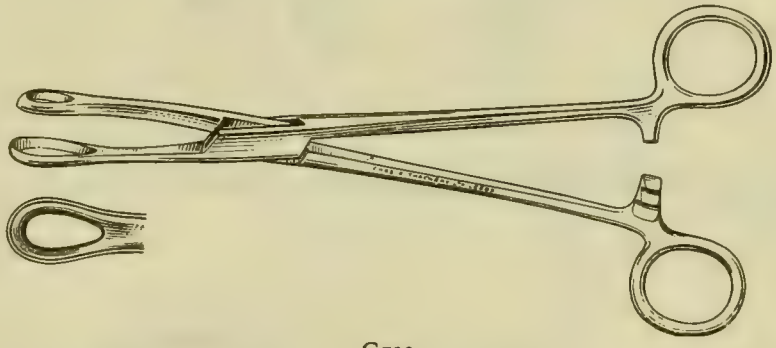
Cat No.

G720 THYROID DISSECTOR, long shaft, solid forged, stainless steel .. each



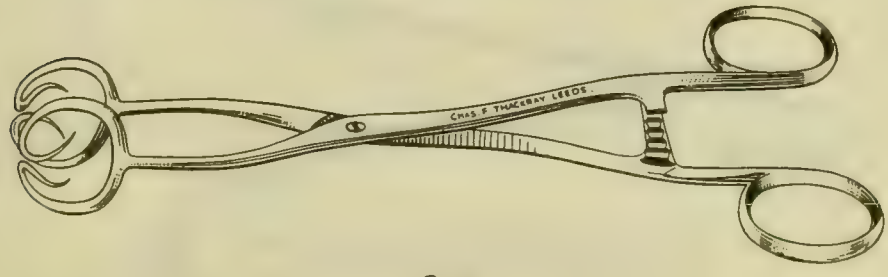
G721

G721 THYROID DISSECTING FORCEPS, serrated jaws, 5¾ in., stainless steel each



G722

G722 DENIS BROWNE'S THYROID HOLDING FORCEPS, box joint, 8 in., stainless steel .. .. each



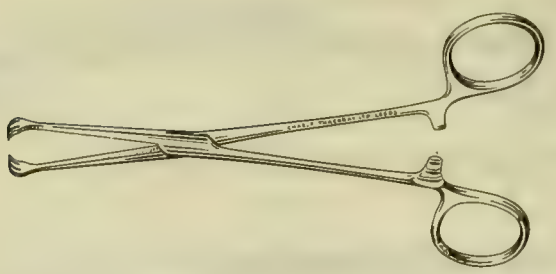
G723

G723 KOCHER'S THYROID HOLDING FORCEPS, with large jaws, screw joint, 7 in., stainless steel .. .. each

G724 Ditto .. with small jaws .. .. each

GENERAL OPERATION INSTRUMENTS

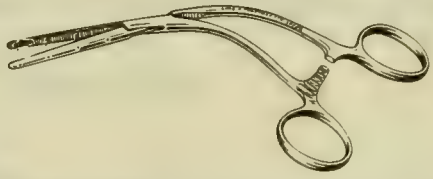
THYROID INSTRUMENTS



G725

Cat. No.

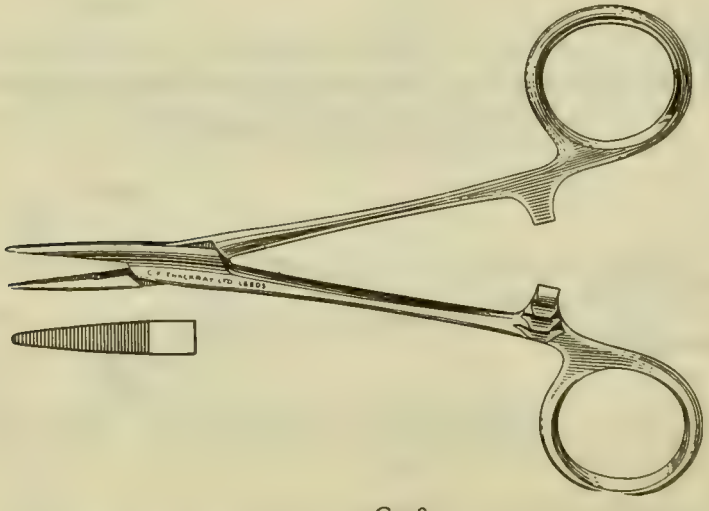
G725 LAHEY'S THYROID HOLDING FORCEPS, box joint, 6 in., stainless steel each



G726

G726 MASTIN'S THYROID MUSCLE FORCEPS, curved-to-left, box joint, 6¾ in., stainless steel .. .. each

G727 Ditto .. curved-to-right .. .. each



G728

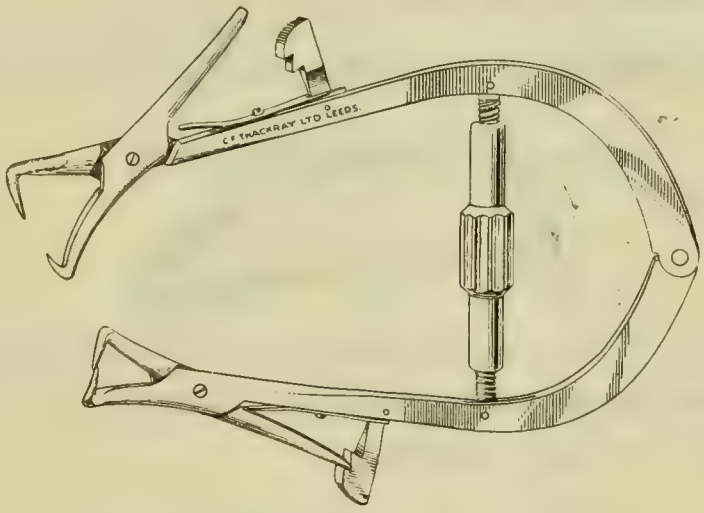
G728 JOLL'S THYROID ARTERY FORCEPS, straight, box joint, 5¾ in., stainless steel .. .. each



G729

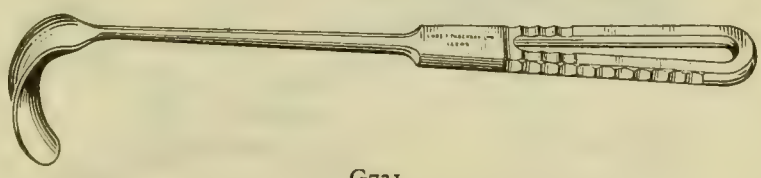
at. No.

G729 SCHOEMAKER'S THYROID SCISSORS, with grooved blades, 5½ in., stainless steel .. .. each



G730

G730 JOLL'S THYROID RETRACTOR, self-retaining, stainless steel .. each



G731

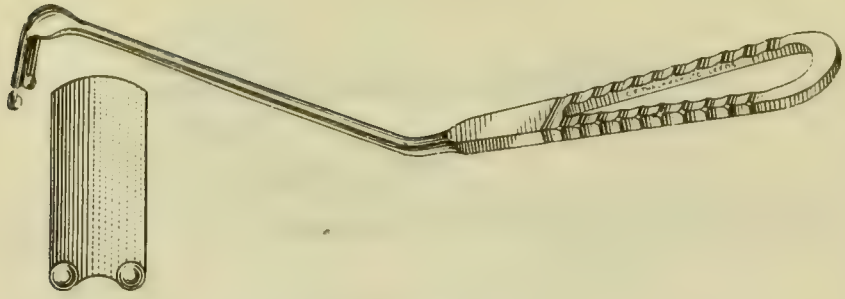
G731 KOCHER'S THYROID RETRACTOR, deep blade, $\frac{9}{16}$ in. wide, solid forged, stainless steel .. .. each



G732

G732 KOCHER'S THYROID RETRACTOR, shallow blade $\frac{7}{16}$ in. wide, solid forged, stainless steel .. .. each

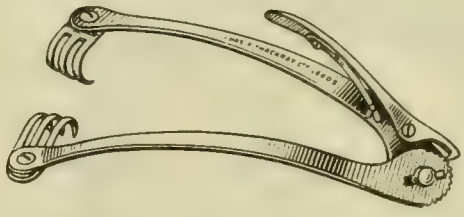
THYROID INSTRUMENTS



G733

Cat. No.

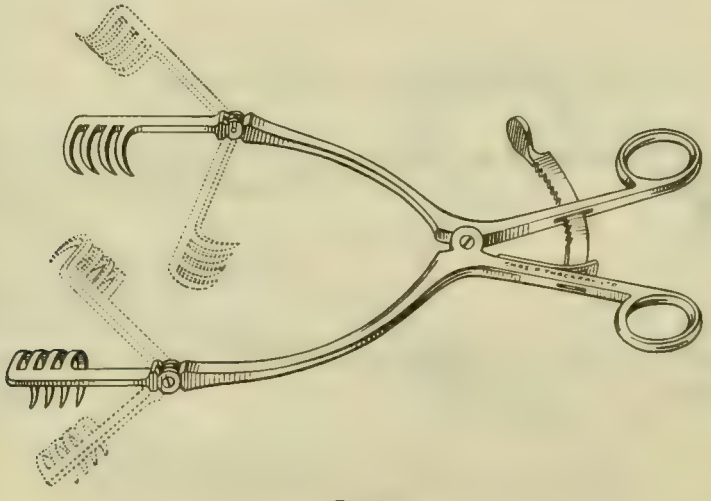
G733 JOLL'S THYROID RETRACTOR, stainless steel .. .. .. each



G734

G734 KOCHER'S THYROID RETRACTOR, self-retaining, stainless steel .. each

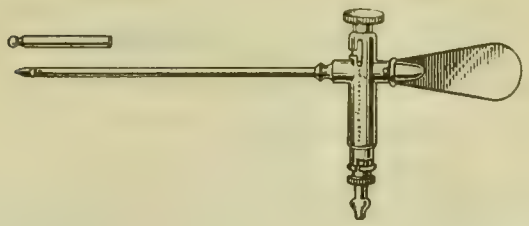
*G735 Ditto .. with hinged arms (Mastin's) .. .. each



G736

G736 MAYO'S THYROID RETRACTOR, self-retaining, with hinged arms and sharp four-prong blades, stainless steel .. .. each

**Not illustrated*

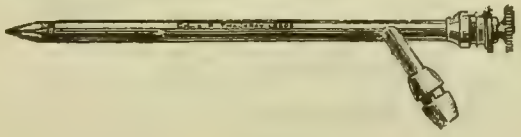


G737

Cat. No.

G737 METCALFE'S TROCAR, 11 F.C.G., stainless steel, with chromium plated cannula and spring-loaded stopcock .. .. each

When the trocar is withdrawn the cannula entrance is automatically sealed and the side-branch opened. For abdominal, thoracic, hydrocele and general aspiration.

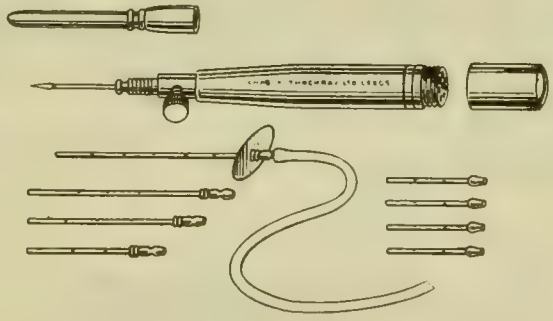


G738

G738 OCHSNER'S TROCAR, 9 F.C.G., stainless steel, with chromium plated cannula and side-branch .. .. each

G739 Ditto .. 14 F.C.G. .. .. each

G740 Ditto .. 20 F.C.G. .. .. each



G741

G741 SOUTHEY'S TROCAR, combined set for anasarca and ascites, consisting of: stainless steel adjustable trocar fitted to chromium plated cylindrical case, eight silver cannulæ, silver shield and two yards of rubber tubing .. .. per set

G742 Ditto .. with four cannulæ only for anasarca .. .. .. per set

G743 Ditto .. with four cannulæ only for ascites .. .. .. per set

G744 Spare Rubber Tubing for Southey's Sets .. .. per yard

NOTE.—F.C.G. = French Catheter Gauge.

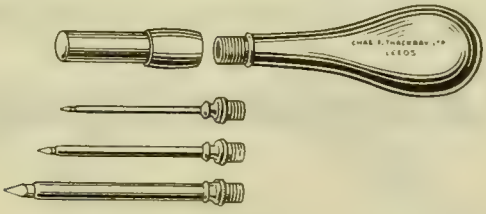


G745

Cat. No.

G745 ASCITES TROCAR, 16 F.C.G., stainless steel, with chromium plated handle and silver cannula .. .. each

G746 Ditto .. 21 F.C.G. .. .. each



G747

G747 EXPLORING TROCARS, set of three sizes: 6, 9 and 14 F.C.G., stainless steel, with silver cannulæ nested in chromium plated case .. .. .. each

G748 Ditto .. set of four sizes: 6, 9, 14 and 18 F.C.G. .. .. .. each



G749

G749 EXPLORING TROCAR, 8 F.C.G., 6 in. long, stainless steel, with chromium plated handle and silver cannula .. .. each



G750

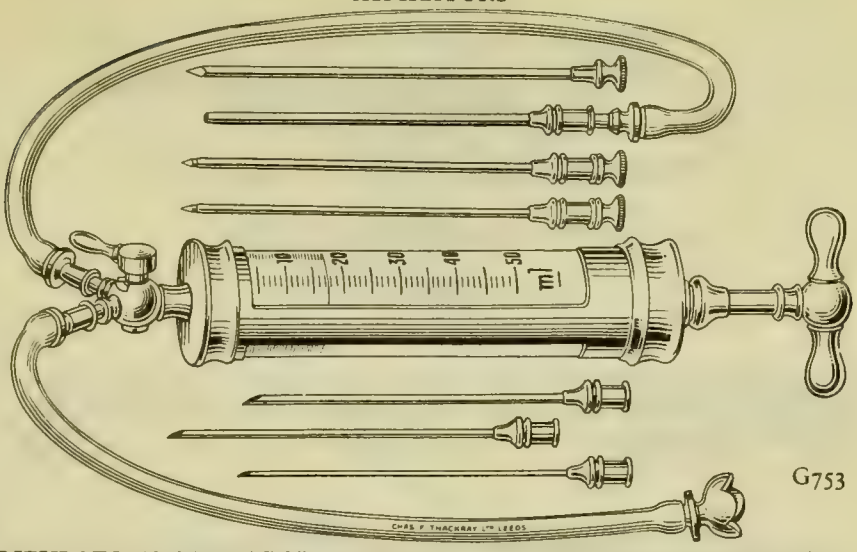
G750 HYDROCELE TROCAR, 8 F.C.G., stainless steel, with chromium plated handle and silver cannula .. .. each

G751 Ditto .. 9 F.C.G. .. .. each

G752 Ditto .. 10 F.C.G. .. .. each

NOTE.—F.C.G. = French Catheter Gauge.

ASPIRATORS

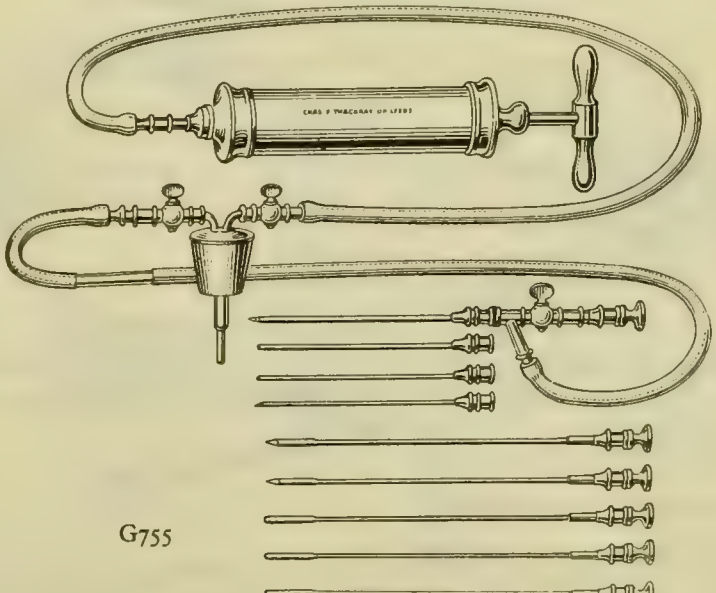


G753

Cat. No.

G753 DIEULAFOY'S ASPIRATOR, consisting of: 50 ml. syringe with detachable glass barrel and fitted with two-way stopcock; three stainless steel trocars, sizes: 9, 11 and 13 B.W.G.; three chromium plated cannulæ; three stainless steel needles, sizes: 13, 15 and 17 B.W.G.; rubber tubing, metal connections and sinker, in polished mahogany case .. .. complete

G754 Ditto .. in chromium plated case .. .. complete



G755

G755 POTAIN'S ASPIRATOR, consisting of: chromium plated all-metal pump; three stainless steel trocars, sizes: 9, 11 and 13 B.W.G.; three nickel plated cannulæ; three stainless steel blunt pilots; one stainless steel needle, size 17 B.W.G.; chromium plated two-way stopcock; chromium plated bottle mount, fitted with stopcocks and rubber bung; rubber tubing, mounts and connections in polished mahogany case, complete

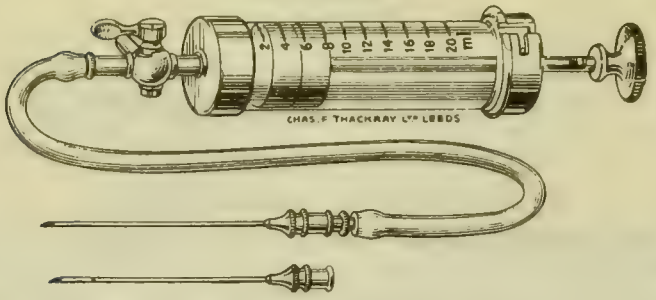
G756 Ditto .. in chromium plated case .. .. complete

*G757 Glass Bottle, 30 oz., for above .. .. each

NOTE:—B.W.G. = British Wire Gauge.

**Not illustrated*

ASPIRATORS

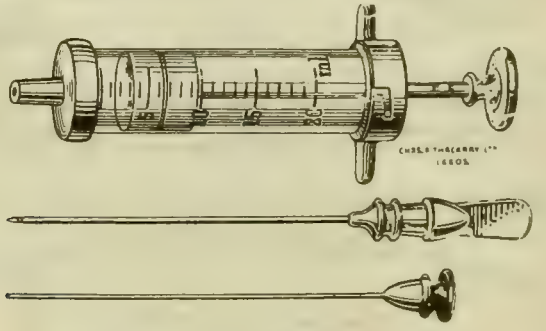


G758

Cat. No.

G758 BARTLETT'S ASPIRATOR, consisting of: 20 ml. syringe with fixed two-way stopcock; two stainless steel needles, size 16 B.W.G.; rubber tubing and mounts; in polished mahogany case .. .. complete

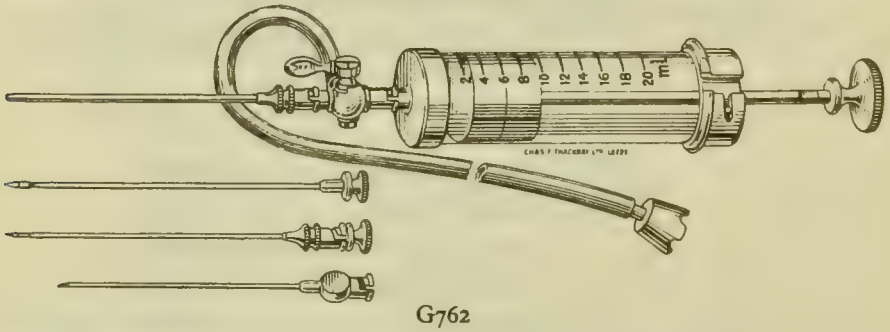
G759 Ditto .. in metal case .. .. complete



G760

G760 GAUVAIN'S ASPIRATOR, consisting of: 20 ml. syringe with large bore nozzle; stainless steel trocar, size 15 B.W.G.; stainless steel pilot and plated cannula; in polished mahogany case .. .. complete

G761 Ditto .. in metal case .. .. complete

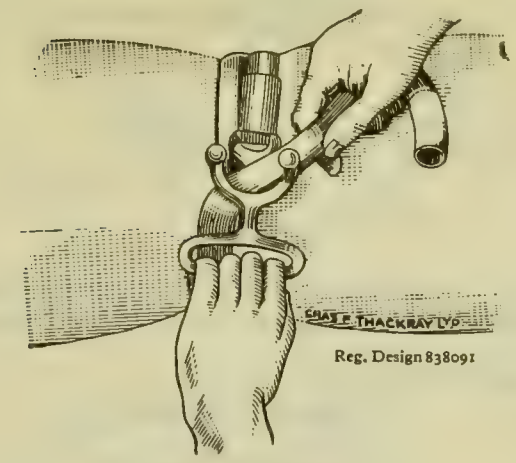


G762

G762 MARTIN'S ASPIRATOR, consisting of: 20 ml. syringe with detachable two-way stopcock; two stainless steel trocars, sizes: 11 and 13 B.W.G.; plated cannulæ; one stainless steel exploring needle, size 16 B.W.G.; rubber tubing and metal sinker; in polished mahogany case .. .. complete

G763 Ditto .. in metal case .. .. complete

NOTE.—B.W.G. = British Wire Gauge.



G764

Cat. No.

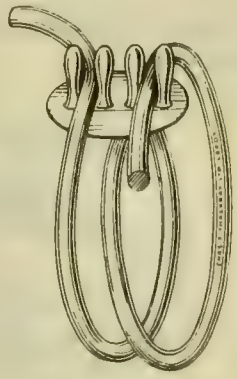
G764 CALLANDER'S TOURNIQUET, with chromium plated mount attached to stout rubber tubing .. .. each

This instrument is a modification of Samway's: the large handle provides a comfortable grip for efficient and rapid application.

Vide "B.M.J." June 29th, 1940, page 1059.



G765



G768

G765 ESMARCH'S TOURNIQUET, with chromium plated hook and chain attached to stout rubber tubing .. .. each

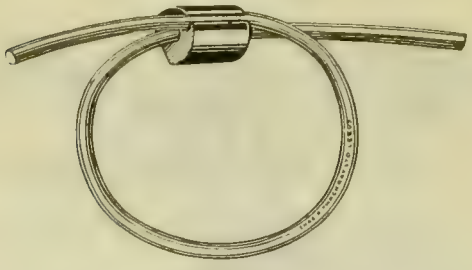
*G766 ESMARCH'S LEG BANDAGE, stout rubber, 6 yards long by 3 in. wide each

G767 Ditto .. for arm, 3 yards long by 3 in. wide .. .. .. each

G768 FINOCHIETTO'S TOURNIQUET, with chromium plated mount and solid rubber cord .. .. each

**Not illustrated*

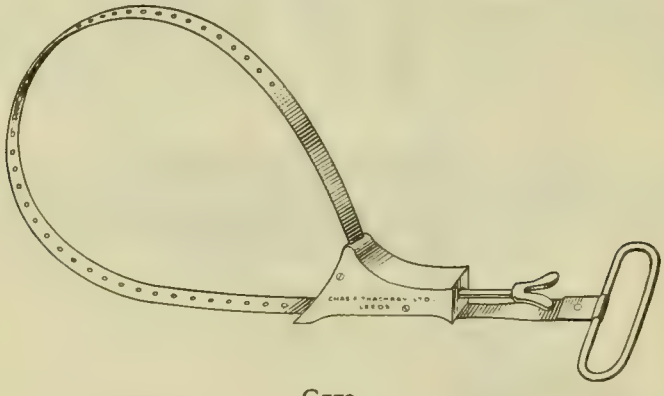
TOURNIQUETS



G769

Cat. No.

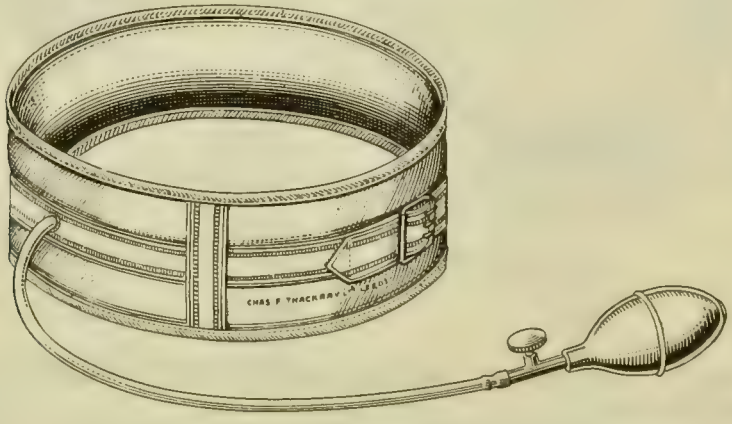
G769 FOULIS' TOURNIQUET, with vulcanite mount and solid rubber cord, each



G770

G770 GODWIN'S TOURNIQUET, with chromium plated mount and adjustable spring-steel band .. .. each

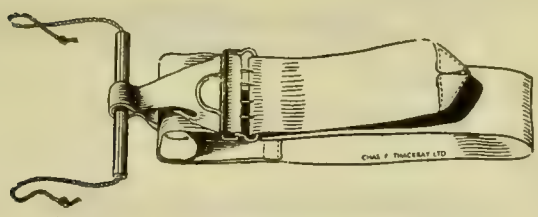
For cranial and general work.



G771

G771 PNEUMATIC LEG TOURNIQUET, with inflatable rubber bag and canvas cover .. .. each

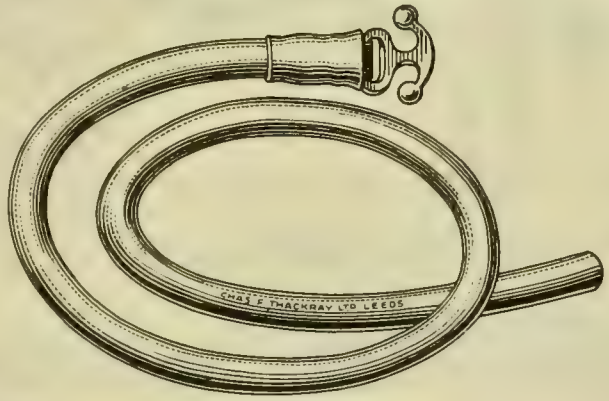
G772 Ditto .. for arm .. .. each



G773

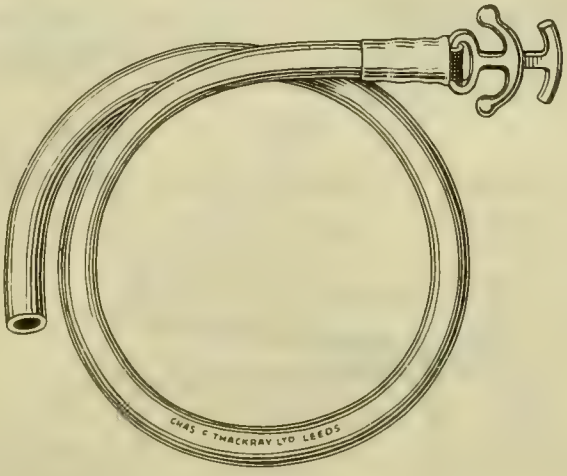
Cat. No.

G773 ST. JOHN AMBULANCE PATTERN TOURNIQUET .. .. each



G774

G774 SAMWAY'S TOURNIQUET, with chromium plated single anchor mount attached to stout rubber tubing .. .. each

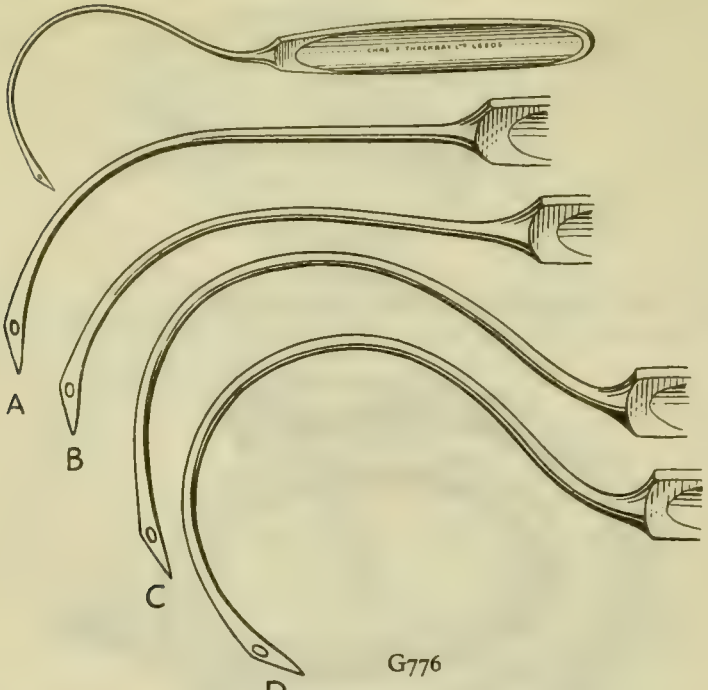


G775

G775 SAMWAY'S TOURNIQUET, MAX PAGE'S modification, with chromium plated double anchor mount attached to stout rubber tubing .. .. each

GENERAL OPERATION INSTRUMENTS

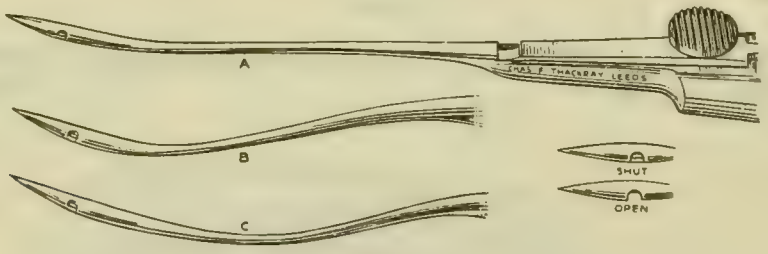
NEEDLES ON HANDLES



G776

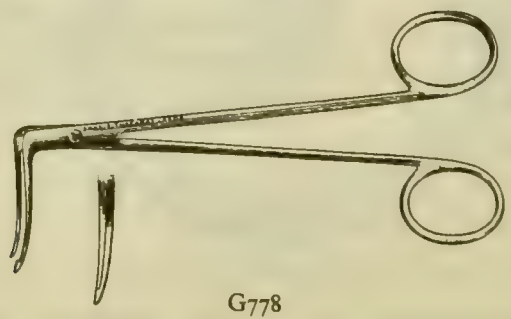
Cat. No.

G776 DOYEN'S NEEDLES, four shapes: A, B, C and D, solid forged, stainless steel, each



G777

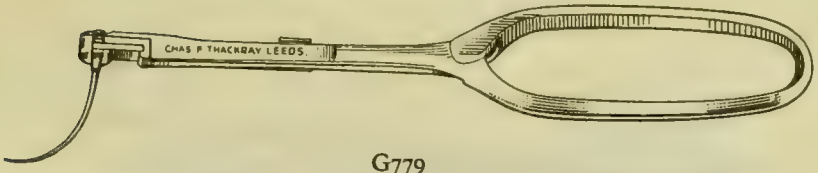
G777 REVERDIN'S NEEDLES, three shapes: A, B and C, stainless steel, chromium plated handles .. .. each



G778

G778 CLEVELAND'S "NEEDLE" FORCEPS, screw joint, 5½ in., stainless steel, each

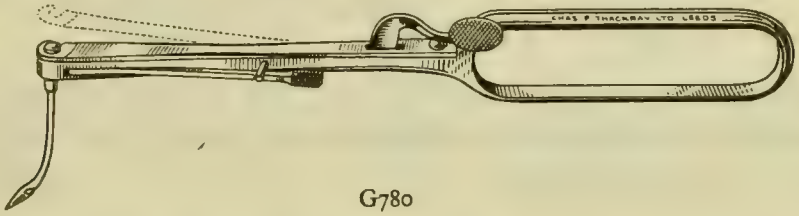
NEEDLE HOLDERS



G779

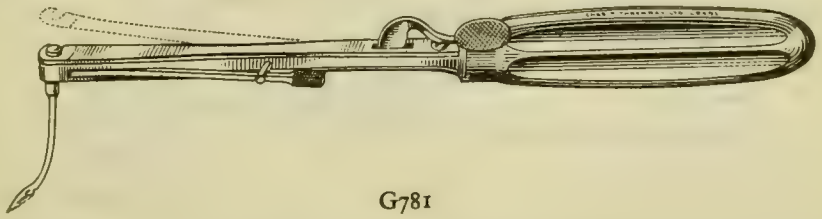
Cat. No.

G779 BONNEY-REVERDIN'S NEEDLE HOLDER, standard model, without needles, stainless steel .. .. each



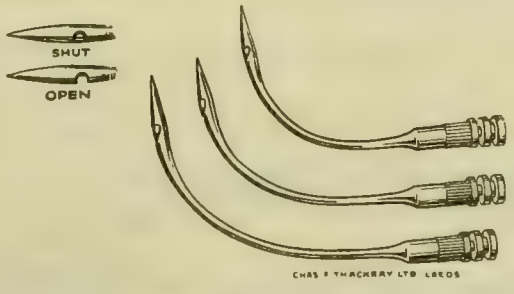
G780

G780 BONNEY-REVERDIN'S NEEDLE HOLDER, PERCIVAL'S modification, without needles, stainless steel .. .. each
In this instrument the needle stilette is controlled by a thumb-operated spring lever and not by compression of the handle as on the standard model.



G781

G781 BONNEY-REVERDIN'S NEEDLE HOLDER, PERCIVAL'S modification, without needles, stainless steel, sand-blasted hollow handle .. .. each
This instrument is identical with Fig. G780 *but fitted with a hollow handle.*



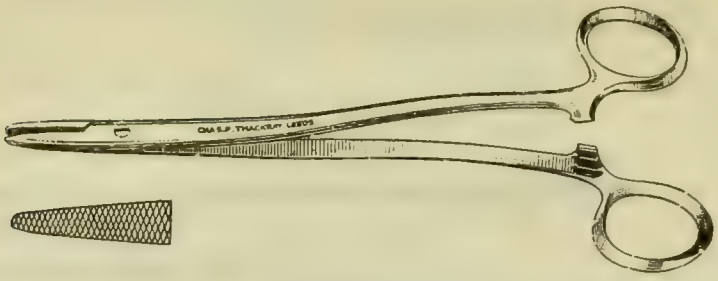
G782

G782 BONNEY-REVERDIN'S NEEDLES, to fit above holders, sharp, three sizes: small, medium and large, stainless steel .. .. each
*G783 Ditto .. blunt, medium size only .. .. each
*G784 Case for holder and four needles, chromium plated .. .. .. each

**Not illustrated*

GENERAL OPERATION INSTRUMENTS

NEEDLE HOLDERS

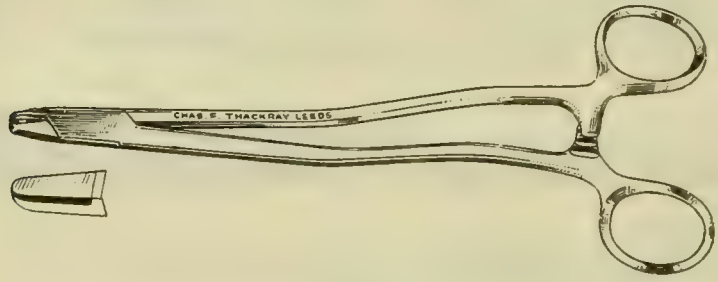


G785

Cat. No.

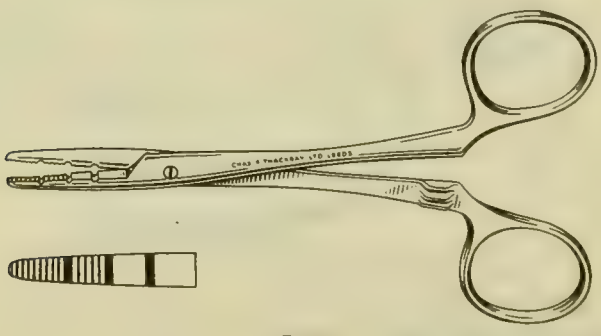
G785 BIRMINGHAM GENERAL HOSPITAL PATTERN NEEDLE HOLDER, with serrated jaws, screw joint, 8 in., stainless steel .. .. .. each

*G786 Ditto .. with copper lined jaws .. .. each



G787

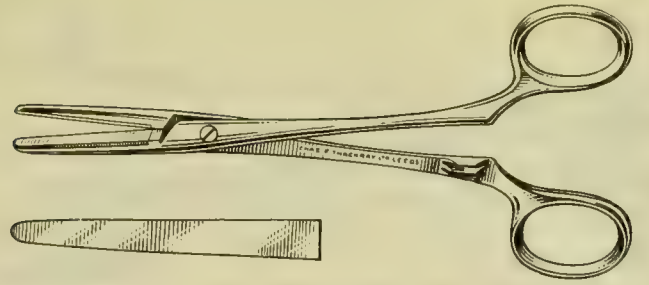
G787 BOZEMANN'S NEEDLE HOLDER, improved pattern, with copper lined jaws, box joint, 8 in., stainless steel .. .. each



G788

G788 BRUCE CLARKE'S NEEDLE HOLDER, screw joint, 5 in., stainless steel, each

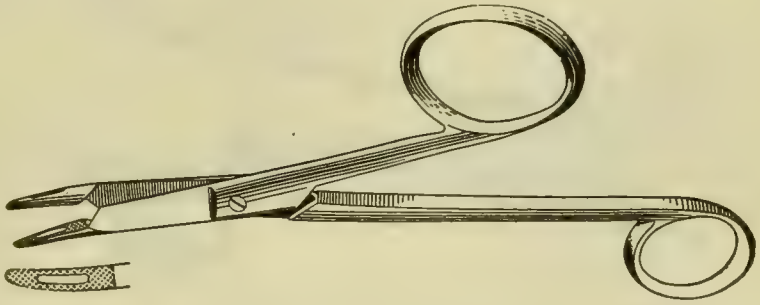
**Not illustrated*



G789

Cat. No.

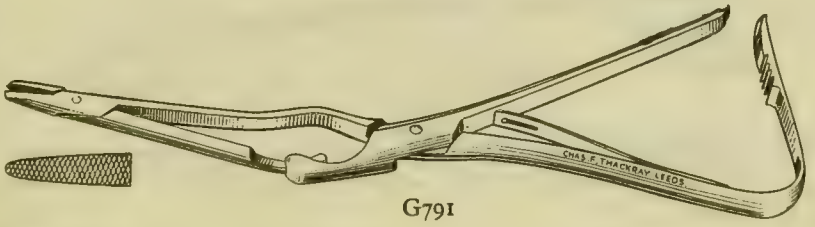
G789 COLE'S NEEDLE HOLDER, with copper lined jaws, screw joint, 7 in., stainless steel .. .. each



G790

G790 GILLIES' NEEDLE HOLDER and SCISSORS combined, 6¼ in., stainless steel, each

Can also be made for left-hand use.

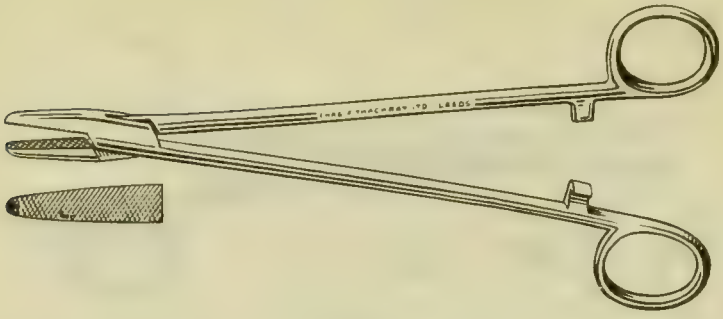


G791

G791 HALSTED'S (or CUSHING'S) NEEDLE HOLDER, screw joint, 8½ in., stainless steel .. .. each

GENERAL OPERATION INSTRUMENTS

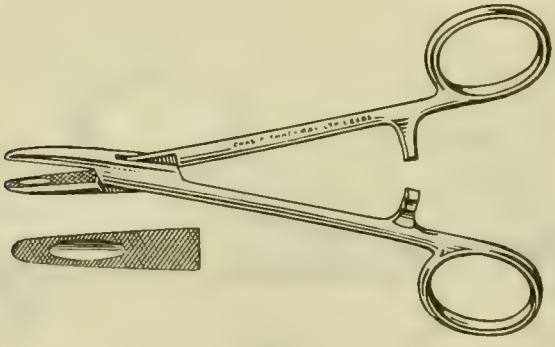
NEEDLE HOLDERS



G792

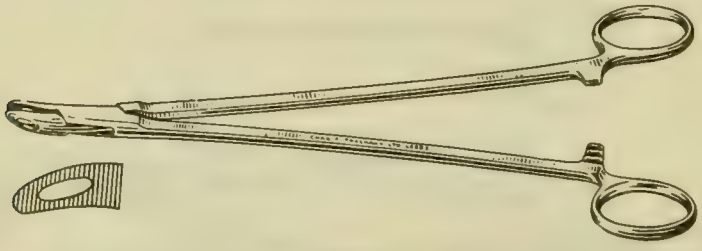
Cat. No.

G792 HEGAR'S NEEDLE HOLDER, box joint, 8 in., stainless steel .. .. each



G793

G793 HIGGS' NEEDLE HOLDER, box joint, 6 in., stainless steel .. .. .. each



G794

G794 SWIFT JOLY'S NEEDLE HOLDER, with curved fenestrated jaws, box joint, 8 in., stainless steel .. .. each

*G795 Ditto .. 6¾ in. (Metzenbaum's) .. .. each

Not illustrated

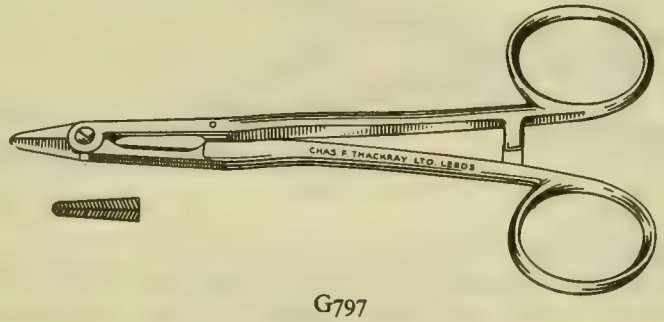


AVAILABLE WITH BOX JOINT ONLY

G796

Cat. No.

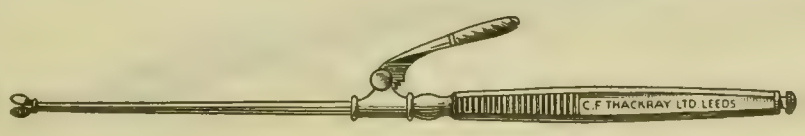
G796 KILNER'S NEEDLE HOLDER, simple pattern, screw joint, 5¼ in., stainless steel .. .. each



G797

G797 KILNER'S NEEDLE HOLDER, latest pattern, multiple joints, 5¼ in., stainless steel .. .. each

The jaws of this instrument are in two sections and have a light spring action to grip fine needles and suture material firmly without damage.



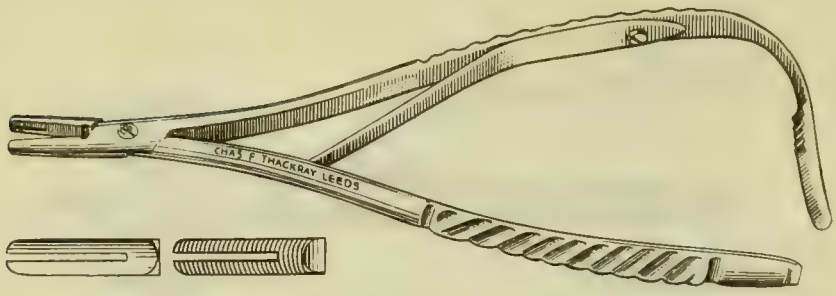
G798

G798 LANE'S NEEDLE HOLDER, 9 in., stainless steel, chromium plated handle, each

Originally designed for cleft palate work.

GENERAL OPERATION INSTRUMENTS

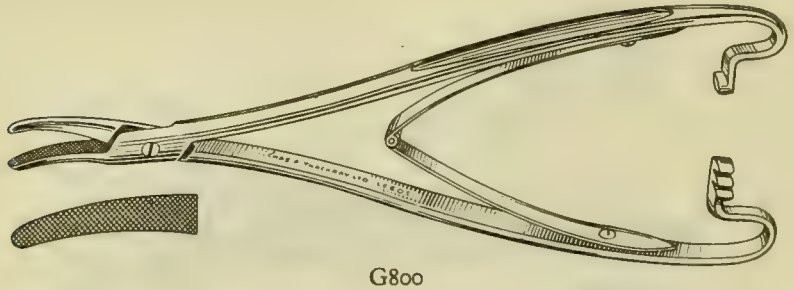
NEEDLE HOLDERS



G799

Cat. No.

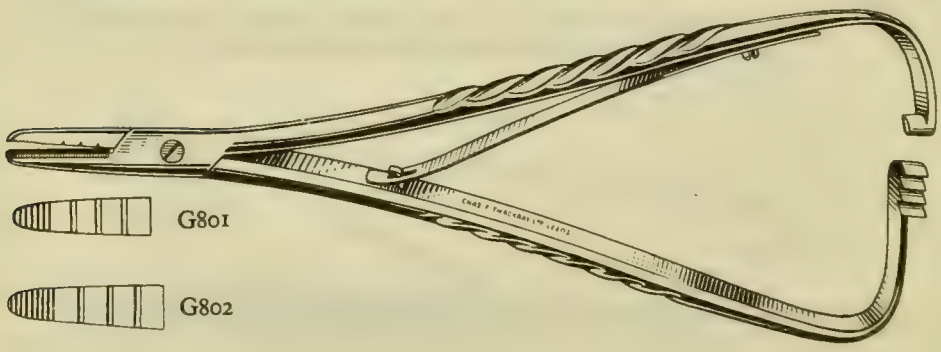
G799 LONDON HOSPITAL PATTERN NEEDLE HOLDER, with opposing convex and concave jaws, screw joint, 7½ in., stainless steel .. .. .. each



G800

G800 MAINGOT'S NEEDLE HOLDER, screw joint, 8½ in., stainless steel .. each

This needle holder is relatively light in weight, of useful length and easy to hold. The needle is gripped securely, and instantly released by a simple disengaging mechanism. Particularly useful for abdominal work.

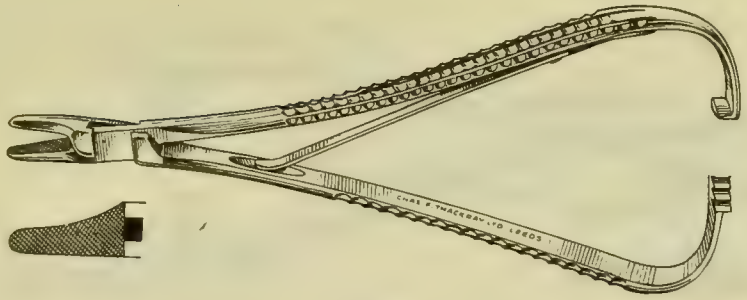


G801

G802

G801 MACPHAIL'S NEEDLE HOLDER, with one jaw lined with copper, screw joint, 6 in., stainless steel .. .. each

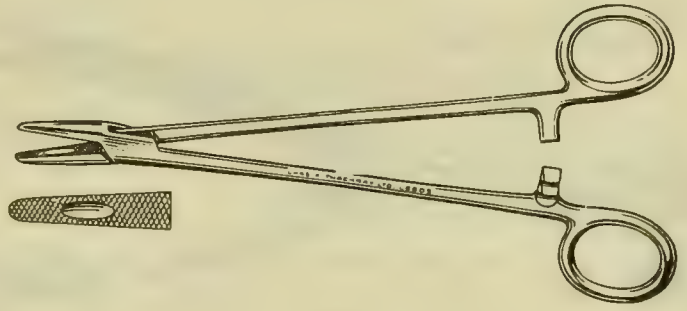
G802 Ditto .. 8 in. .. .. each



G803

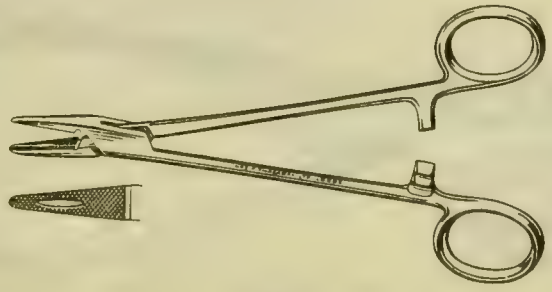
Cat. No.

G803 "MANCHESTER" PATTERN NEEDLE HOLDER, aseptic joint, 8 in., stainless steel .. .. each



G804

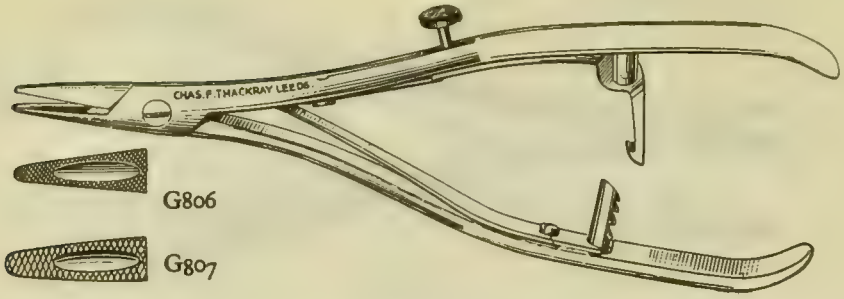
G804 MAYO'S NEEDLE HOLDER, box joint, 7½ in., stainless steel .. each



G805

G805 MAYO'S NEEDLE HOLDER, light pattern, box joint, 6 in., stainless steel, each

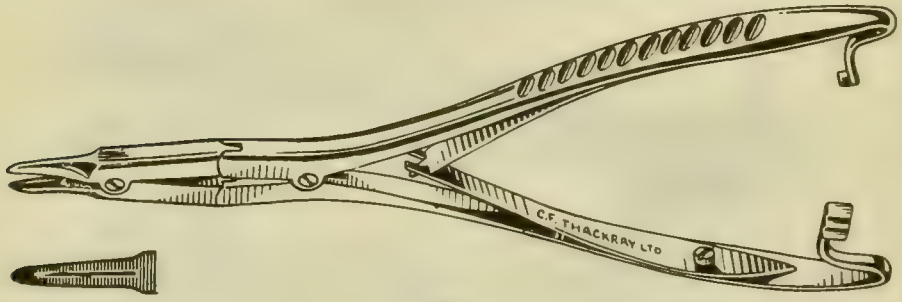
NEEDLE HOLDERS



Cat. No.

G806 MAYO-ROCHESTER PATTERN NEEDLE HOLDER, with thumb-button release, screw joint, 7 in., stainless steel .. .. each

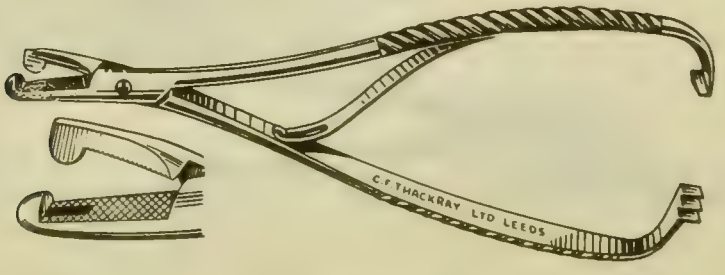
G807 Ditto .. 9 in. .. .. each



G808

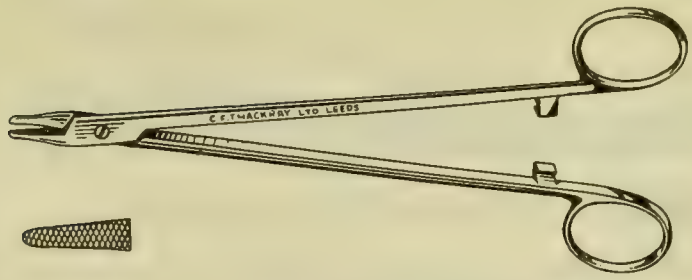
G808 NEEDLE HOLDER, multiple joints, 8 in., stainless steel .. .. each

The multiple joints give a firm grip and the narrow jaws prevent damage to the needle.



G809

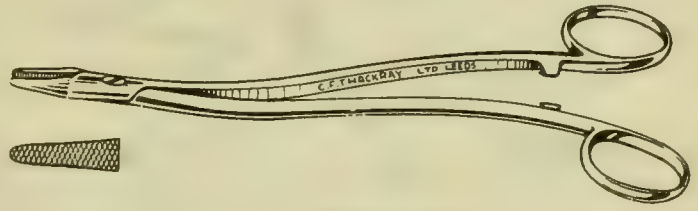
G809 RICHTER'S NEEDLE HOLDER, screw joint, 8 in., stainless steel .. each



G810

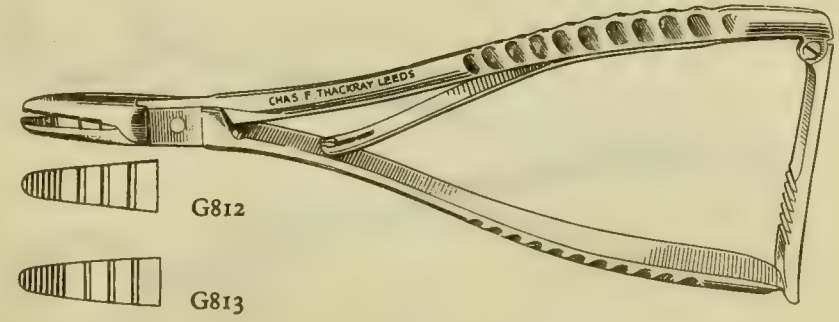
Cat. No.

G810 SIMS' NEEDLE HOLDER, screw joint, 7½ in., stainless steel .. each



G811

G811 SIMS' NEEDLE HOLDER, curved pattern, screw joint, 7½ in., stainless steel, each



G812

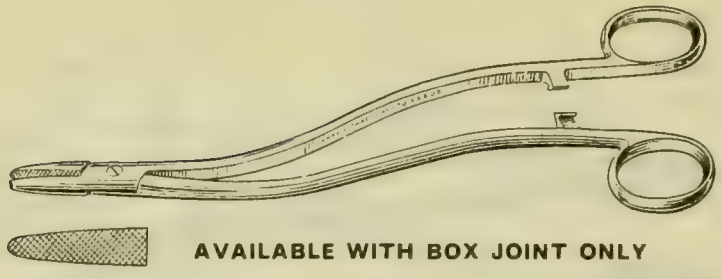
G813

G812 STANMORE BISHOP'S NEEDLE HOLDER, with one jaw lined with copper, aseptic joint, 6 in., stainless steel .. .. each

G813 Ditto .. 8 in. .. .. each

GENERAL OPERATION INSTRUMENTS

NEEDLE HOLDERS



G814

Cat. No.

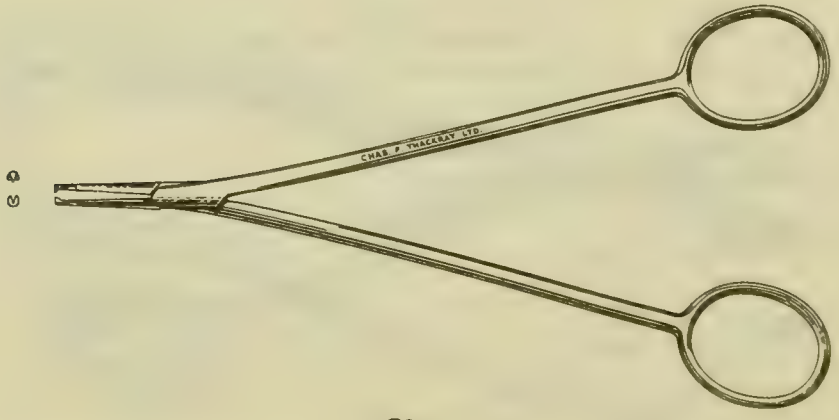
G814 THOMSON-WALKER'S NEEDLE HOLDER, screw joint, 8 in., stainless steel, each

G815 Ditto .. box joint .. .. each



G816

G816 WRIGHT'S NEEDLE HOLDER, box joint, 5 in., stainless steel .. each



G817

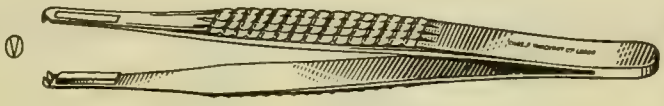
G817 DENIS BROWNE'S NEEDLE "CATCHING" FORCEPS, with one into two teeth on serrated jaws, open shanks, box joint, 6½ in., stainless steel .. each



G818

Cat. No.

G818 NEEDLE AND SYRINGE HOLDING FORCEPS, 6 in., stainless steel, each

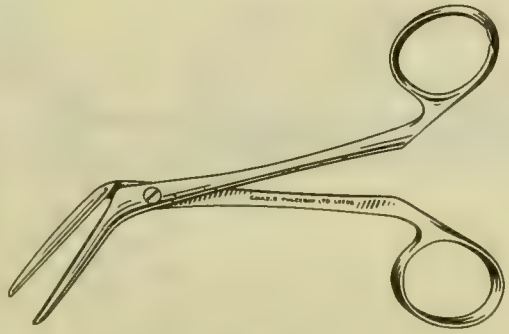


G819

G819 CHARNLEY'S DISSECTING FORCEPS, with one into two teeth and block on jaw, 7 in., stainless steel .. .. each

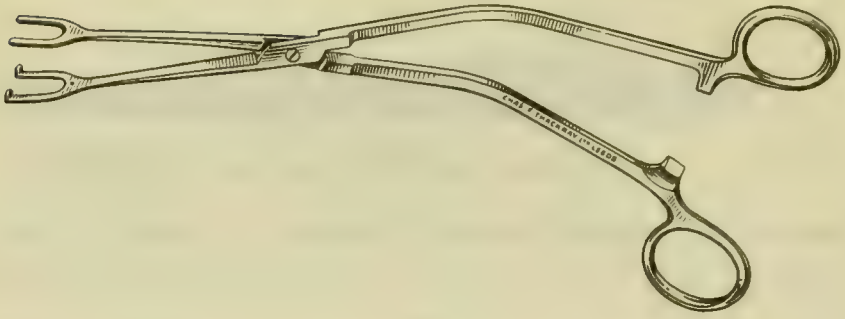
In addition to its use as dissecting forceps, this instrument has been designed to grip suture material firmly when tying knots in "no-touch" technique; the suture is trapped in the fenestrum by the block projection on the opposing jaw. These forceps are particularly useful in the tying of heavy suture material, especially nylon and catgut.

Vide "B.M.J.", May 19th, 1945. Page 702.



G820

G820 GALABIN'S LIGATURE HOLDING FORCEPS, screw joint, 5¼ in., stainless steel .. .. each

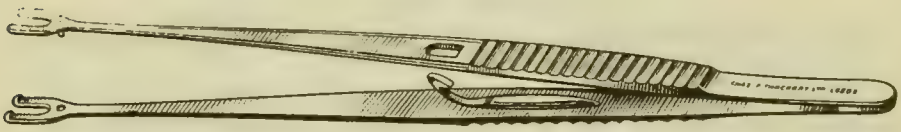


G821

Cat. No.

G821 MILLIN'S modified YOUNG'S LIGATURE HOLDING FORCEPS, screw joint, 9½ in., stainless steel .. .. each

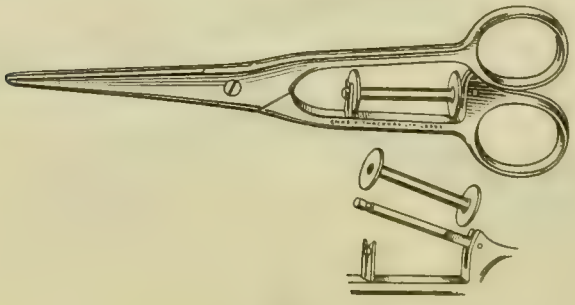
G822 Ditto .. box joint .. .. each



G823

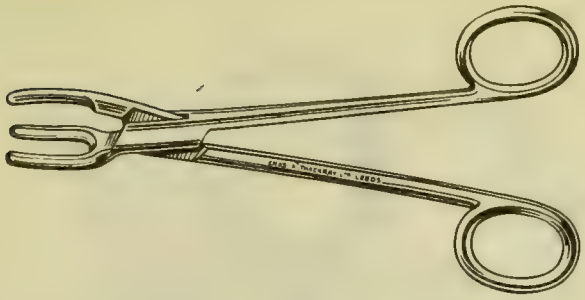
G823 RICHES' modified YOUNG'S LIGATURE HOLDING FORCEPS, 10 in., stainless steel .. .. each

Vide the "Lancet", Jan. 10th, 1948, page 68.



G824

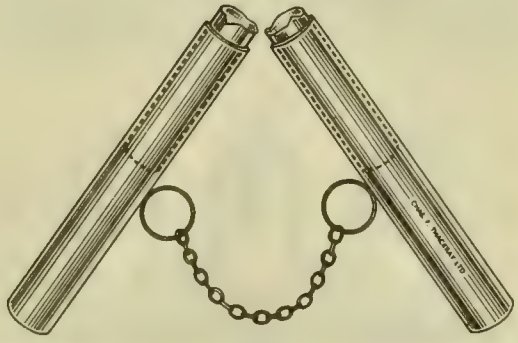
G824 WELLS' LIGATURE SCISSORS, with detachable ligature reel on shank, 6¼ in., stainless steel .. .. each



G825

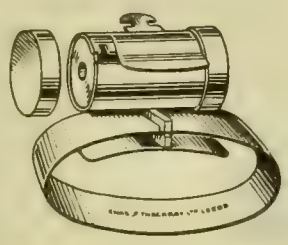
Cat. No.

G825 DENIS BROWNE'S FORCEPS, for crushing glass suture tubes, box joint, 6½ in., stainless steel .. .. each

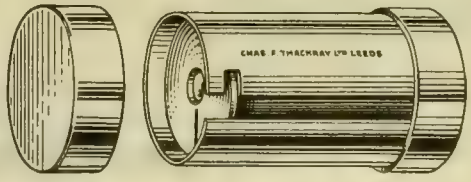


G826

G826 ST. BART'S. HOSPITAL PATTERN SUTURE TUBE BREAKER, chromium plated .. .. each

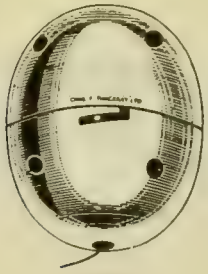


G827



G830

G827 BONNEY'S LIGATURE HOLDER, chromium plated, complete with metal reel and rubber wristband .. .. each
G828 Spare Reels .. .. each
G829 Spare Wristbands .. .. each
G830 DUNHILL'S LIGATURE HOLDER, chromium plated, complete with metal reel, each
G831 Spare Reels .. .. each



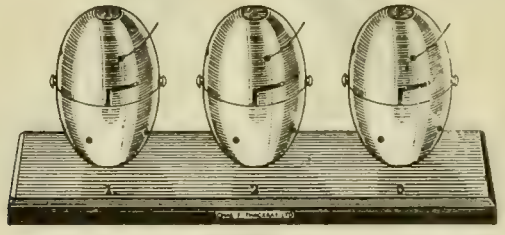
G832

Cat. No.

G832 EGG-SHAPED LIGATURE HOLDER, chromium plated, complete with one large metal reel .. .. each

G832A Ditto .. with two small metal reels .. .. each

G833 Spare Reels, two sizes: large (for G832) and small (for G832A) .. each

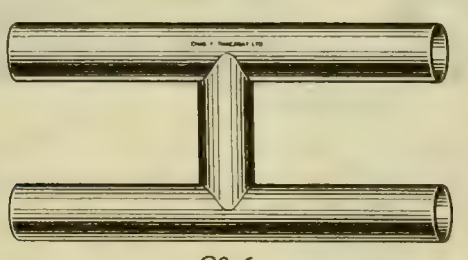


G834

G834 EGG-SHAPED LIGATURE HOLDERS, chromium plated, complete with metal reels, set of three on stand .. .. per set

To ensure quick release the holders are attached to the stand by fast-thread screws.

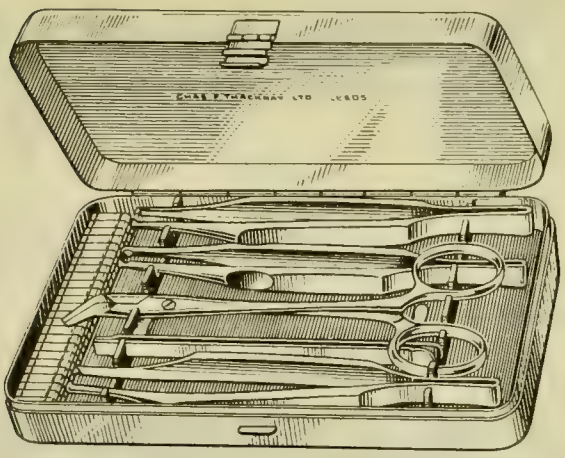
G835 Spare Reels .. .. each



G836

G836 LIGATURE HOLDER, GUY'S HOSPITAL PATTERN, chromium plated, each

SUTURE INSTRUMENTS



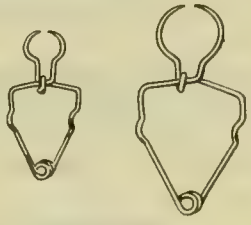
G837

Cat. No.

G837 MICHEL'S CLIP SUTURE SET, consisting of:
Two Approximating Forceps, Fig. G850.
One Clip Rack for above, Fig. G842.
One Inserting Forceps, Fig. G855.
One Extracting Forceps, Fig. G859.
One Hundred Michel's Clips, 12 mm., Fig. G838.
In chromium plated hinged case .. .. complete



G838 G839 G840



G841

G838 MICHEL'S SUTURE CLIPS, sizes: 12 mm. by 2·5 mm., 14 mm. by 3 mm., 16 mm. by 3 mm., 18 mm. by 3 mm., 20 mm. by 3 mm. and 22 mm. by 3 mm. In packets of one hundred clips .. .. per pkt.

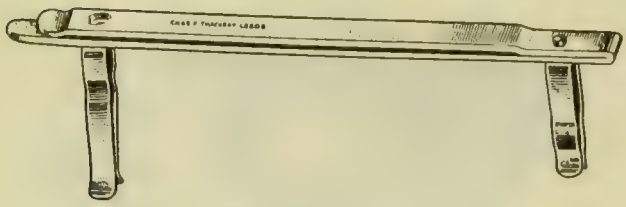
G839 BONNEY'S DOUBLE MICHEL'S CLIPS, size 12 mm. by 5 mm. In packets of one hundred clips .. .. per pkt.

G840 KIFA SUTURE CLIPS, size 12 mm. by 3 mm. In packets of one hundred clips per pkt.

G841 HERF'S ("Stag Beetle") SUTURE CLIPS, two sizes: large and small .. per doz.

GENERAL OPERATION INSTRUMENTS

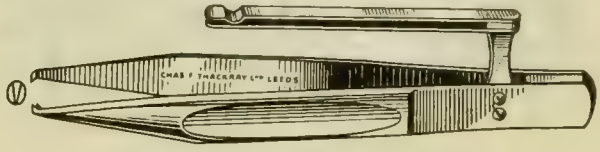
SUTURE INSTRUMENTS



G842

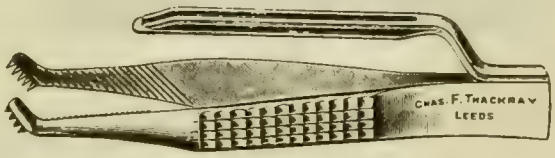
Cat. No.

G842 RACK, for attaching to approximating forceps, to hold Michel's Clips, stainless steel .. .. each
G843 Ditto .. to hold Kifa Clips .. .. each



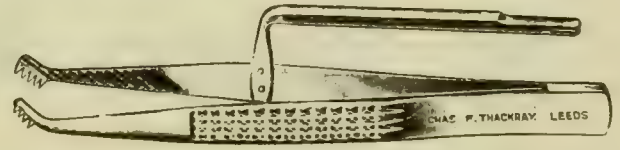
G844

†G844 BONNEY'S APPROXIMATING FORCEPS, with fixed rack for Michel's Clips, stainless steel .. .. each
†G845 Ditto .. with reversed rack .. .. each



G846

G846 CALLANDER'S APPROXIMATING FORCEPS, with fixed rack, slotted to hold either Michel's or Kifa Clips, stainless steel .. .. .. each
G847 Ditto .. with reversed rack .. .. each



G849

†G848 CHILDE'S APPROXIMATING FORCEPS, with fixed rack to hold Michel's Clips, stainless steel .. .. each
†G849 Ditto .. with reversed rack .. .. each

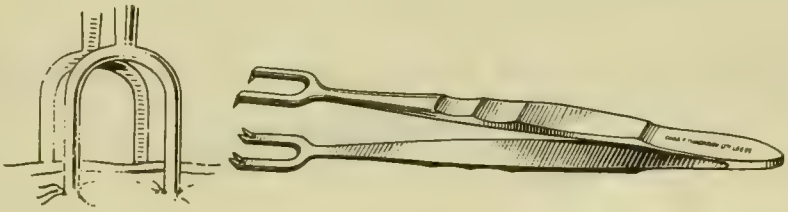
†Can also be supplied with rack to hold Kifa Clips, at extra cost.



G850

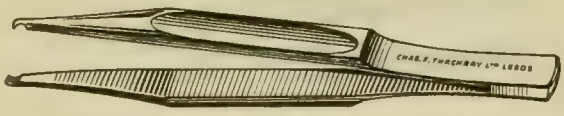
Cat. No.

G850 MICHEL'S APPROXIMATING FORCEPS, stainless steel .. each



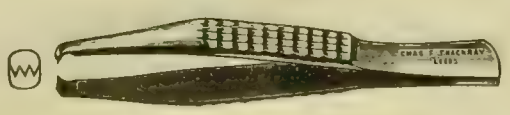
G851

G851 MOYNIHAN'S APPROXIMATING FORCEPS, stainless steel .. each



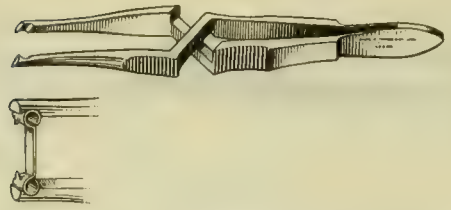
G852

G852 COMYNS BERKELEY'S INSERTING FORCEPS, for Michel's Clips, stainless steel .. .. each



G853

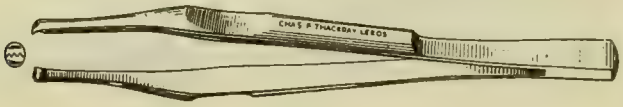
G853 CALLANDER'S INSERTING FORCEPS, for Michel's Clips, stainless steel, each



G854

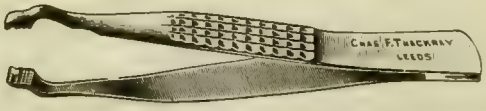
Cat. No.

G854 CLARKE'S INSERTING and HOLDING FORCEPS, for Michel's Clips, cross-action, stainless steel .. .. each



G855

G855 MICHEL'S INSERTING FORCEPS, for Michel's Clips, stainless steel, each



G856

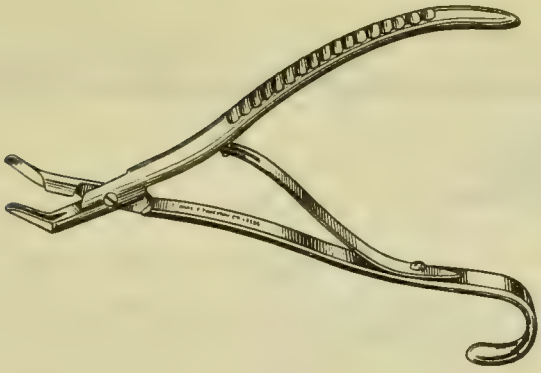
G856 CALLANDER'S COMBINED FORCEPS, for inserting and extracting Kifa Clips, stainless steel .. .. each

Can also be used for inserting Michel's Clips.



G857

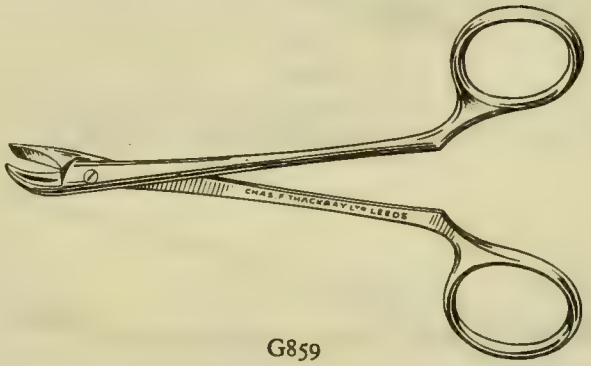
G857 COMBINED INSERTING AND EXTRACTING FORCEPS, for Michel's Clips, screw joint, stainless steel .. .. each



G858

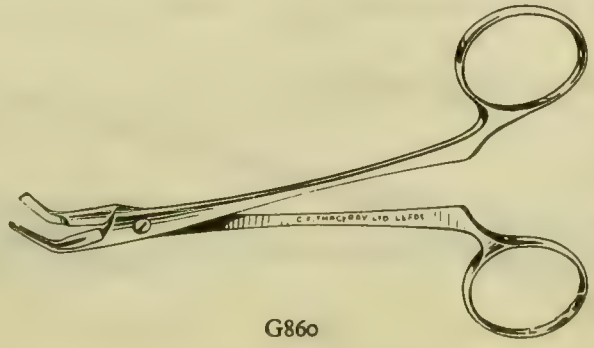
Cat. No.

G858 BRAITHWAITE'S EXTRACTING FORCEPS, for Michel's Clips, screw joint, stainless steel .. .. each



G859

G859 MICHEL'S EXTRACTING FORCEPS, original pattern, for Michel's Clips, screw joint, stainless steel .. . . each

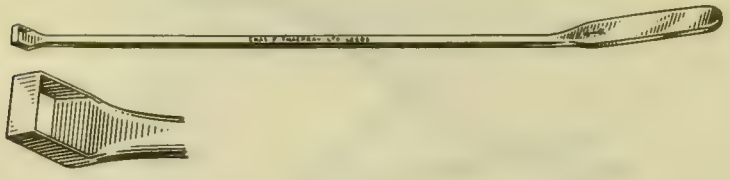


G860

G860 MICHEL'S EXTRACTING FORCEPS, with Braithwaite's jaws, for Michel's Clips, screw joint, stainless steel .. .. each

GENERAL OPERATION INSTRUMENTS

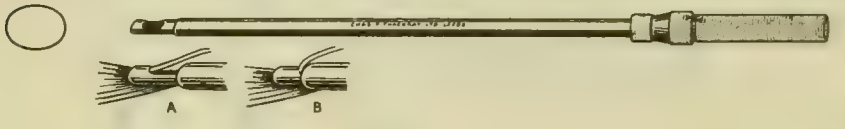
SUTURE INSTRUMENTS (HERNIA)



G861

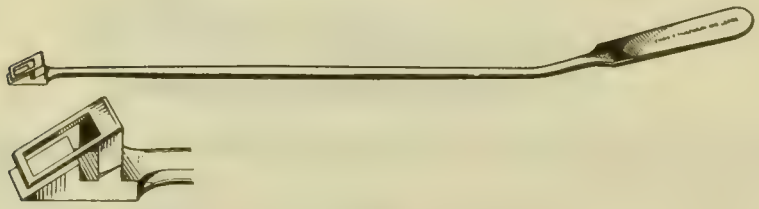
Cat. No.

G861 ADAMS' FASCIATOME, stainless steel .. .. each



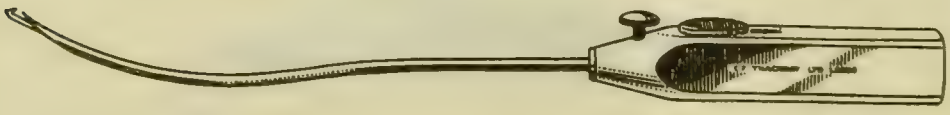
G862

G862 MOSELEY'S FASCIATOME, chromium plated .. .. .. each



G863

G863 SMALL'S FASCIATOME, stainless steel .. .. each



G864

G864 FASCIA-LATA NEEDLE, stainless steel needle and hook, aluminium handle, each



G865–G867

Cat. No.

G865 COWELL'S FASCIA NEEDLES, blunt pointed, Ventral (A), in packets of six, per pkt.

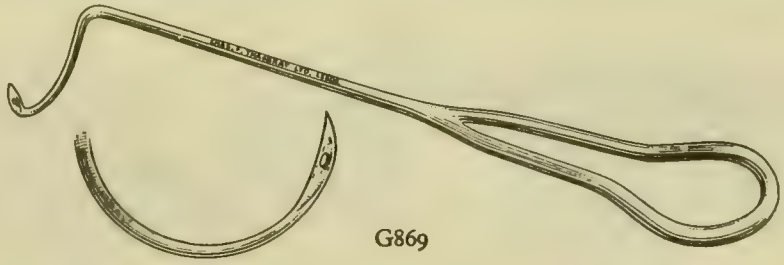
G866 COWELL'S FASCIA NEEDLES, blunt pointed, Inguinal (B), in packets of six, per pkt.

G867 COWELL'S FASCIA NEEDLES, blunt pointed, Femoral (C), in packets of six, per pkt.



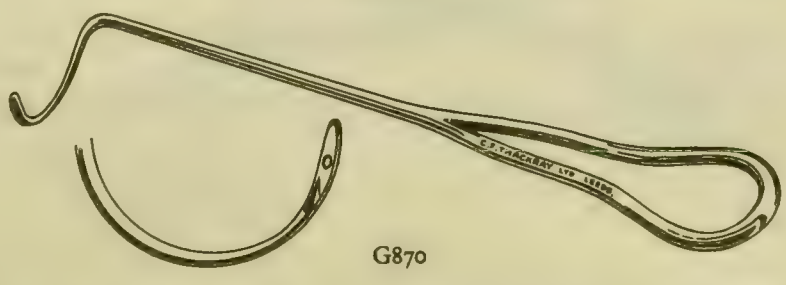
G868

G868 GALLIE'S FASCIA NEEDLES, for use with living sutures, three sizes: large, medium and small, in packets of six of a size .. .. .. per pkt.



G869

G869 MACEWEN'S HERNIA NEEDLE, on wire handle, two patterns: right and left, sharp-pointed, stainless steel .. .. each



G870

G870 MACEWEN'S HERNIA NEEDLE, on wire handle, two patterns: right and left, blunt-pointed, stainless steel .. .. each

GENERAL OPERATION INSTRUMENTS

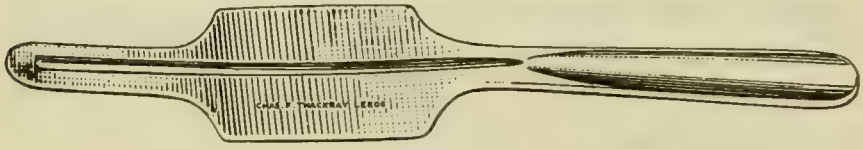
SUTURE INSTRUMENTS (HERNIA)



G871

Cat. No.

G871 HERNIA BISTOURY, curved, solid forged, nickel plated .. .. each
G872 Ditto .. straight .. .. each



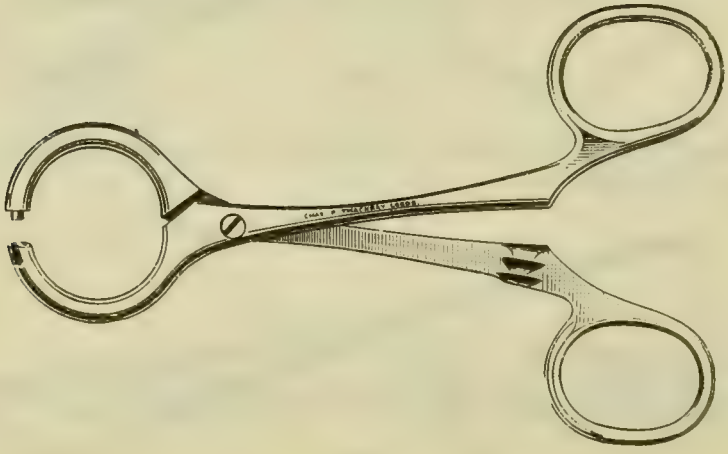
G873

G873 CHILDE'S HERNIA DIRECTOR, with side wings, stainless steel .. each
The side wings prevent the distended intestine from curling round the director.



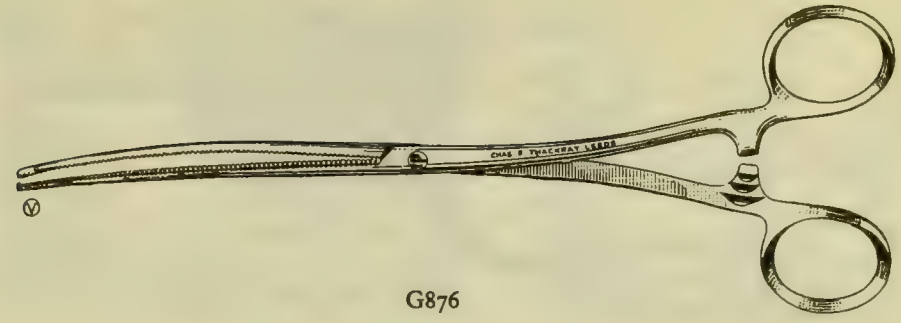
G874

G874 KEY'S HERNIA DIRECTOR, stainless steel .. .. .. each



G875

G875 COLLINGWOOD STEWART'S HERNIA RING FORCEPS, screw joint, stainless steel .. .. each
For holding up the spermatic cord while suturing the ring in the operation for radical cure.



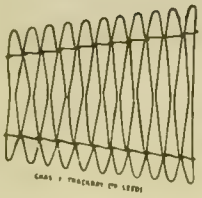
G876

Cat. No.

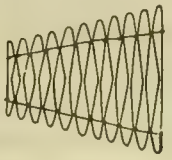
G876 KOCHER'S HERNIA FORCEPS, curved-on-flat, screw joint, 7½ in., stainless steel each

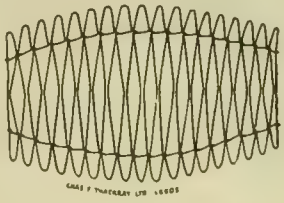
*G877 DAVIS & GECK SURGALOY MESH, 6 by 12 in., 50 x 50 mesh, wire diameter 0·003 in. Packed flat, one sheet to an envelope. Product No. 71 .. each

This is a fine gauze or cloth of stainless steel made for hernia repair. *See page S774 for full descriptive details.*



G878





G879

G878 McGAVIN'S FILIGREES for INGUINAL HERNIA, silver wire, in pairs, large and small .. .. per pair

G879 McGAVIN'S FILIGREES for VENTRAL HERNIA, size 3 in. by 2 in., silver wire .. .. each

G880 Ditto .. size 3½ in. by 2½ in. .. .. each

G881 Ditto .. size 4½ in. by 3 in. .. .. each

G882 Ditto .. size 5 in. by 3½ in. .. .. each

G883 Ditto .. size 6 in. by 4½ in. .. .. each

**Not illustrated*



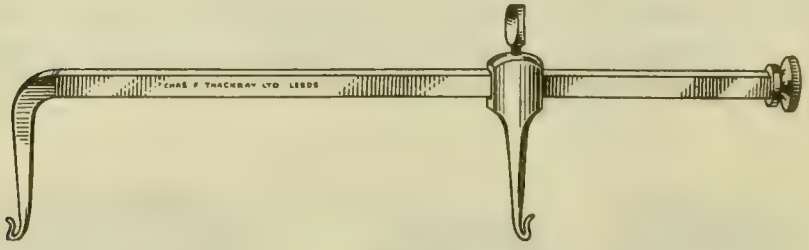
G884

Cat. No.

G884 SUTURE WIRE, stainless steel, size 32 S.W.G. (.0108 in.), for hernia repair, closing abdominal incisions, etc., as used by Mr. Lawrence Abel; on 1 oz. reels, per reel

*G885 Ditto .. Braided on 12 ft. reels .. .. per reel

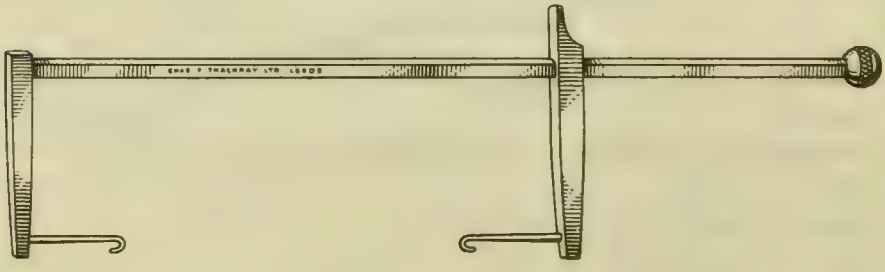
See also page S773



G888

G887 PINEIRO'S WOUND STRETCHER, 15½ in. long, stainless steel .. each

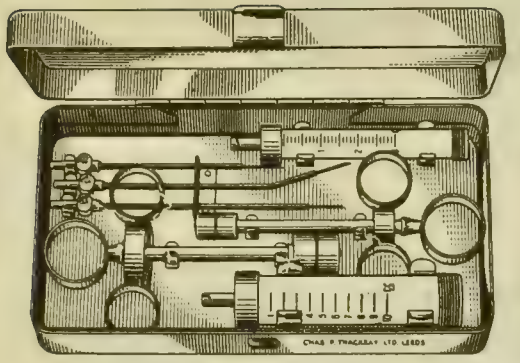
G888 Ditto .. 8½ in. long .. .. each



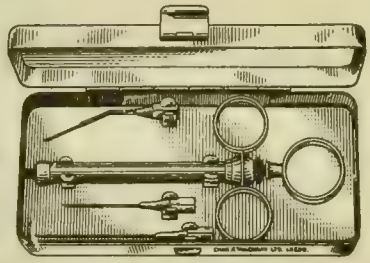
G889

G889 SWANSON'S WOUND STRETCHER, 9½ in. long, stainless steel .. each

**Not illustrated*



G890



G899

Cat. No.

G890 GABRIEL'S SYRINGE OUTFIT, for hæmorrhoidal injection, consisting of: one of each 3 ml. and 10 ml. syringes with screw-caps and bayonet-fitting nozzles; one of each straight and angled injection needles 4 in. long, stainless steel ends; one straight injection needle 2⅞ in. long, stainless steel end; in chromium plated case, complete

G891 GABRIEL'S SYRINGE OUTFIT, for hæmorrhoidal injection, consisting of: one 10 ml. syringe with screw-cap and bayonet-fitting nozzle; one of each straight and angled injection needles 4 in. long, stainless steel ends; in chromium plated case, complete

G892 GABRIEL'S SYRINGE OUTFIT, for hæmorrhoidal injection, consisting of: one 3 ml. syringe with screw-cap and bayonet fitting nozzle; one of each straight and angled injection needles 2⅞ in. long, stainless steel ends; in chromium plated case, complete

G893 GABRIEL'S SYRINGE ONLY, 10 ml., with screw-cap and bayonet-fitting nozzle, each

G894 Ditto .. 3 ml. .. .. each

G895 Spare Needles, straight, 4 in. long .. .. each

G896 Ditto .. angled .. .. each

G897 Ditto .. straight, 2⅞ in. long .. .. each

G898 Ditto .. angled .. .. each

G899 LOCKHART-MUMMERY'S SYRINGE OUTFIT, for hæmorrhoidal injection, consisting of: one 30 min. nickel plated all-metal syringe with screw-fitting nozzle; one of each straight injection needles 1⅞ in. and 1 3/16 in. long, stainless steel; one angled injection needle 1⅝ in. long, stainless steel end; in chromium plated case, complete

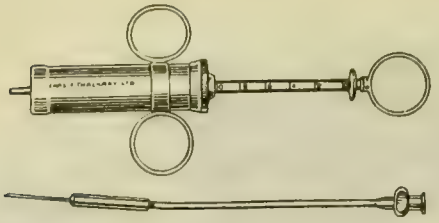
G900 Spare Needles, straight, 1⅞ in. long .. .. each

G901 Ditto .. 1 3/16 in. long .. .. each

G902 Ditto .. angled, 1⅝ in. long, with shoulder .. .. .. each

GENERAL OPERATION INSTRUMENTS

RECTAL

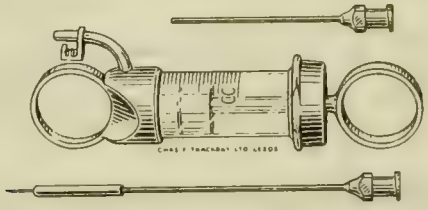


G903

Cat. No.

G903 MORLEY'S SYRINGE OUTFIT, for hæmorrhoidal injection, consisting of: one 10 ml. chromium plated, all-metal syringe with adjustable depth piston and peripheral nozzle, record-fitting; one angled injection needle $3\frac{5}{8}$ in. long, gold plated end fitted with adjustable depth guard and protective cap; in chromium plated case, complete

G904 Spare Needles .. .. each

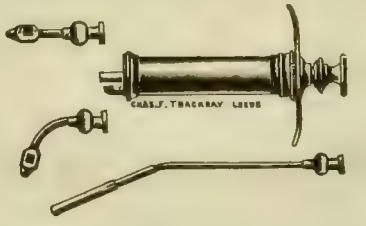


G905

G905 MODIFIED ROBERTS' SYRINGE OUTFIT, for hæmorrhoidal injection, consisting of: one 5 ml. syringe with Labat-fitting nozzle; one straight injection needle $3\frac{7}{8}$ in. long, stainless steel end with adjustable depth guard; one stainless steel filling cannula; in chromium plated case .. .. .. complete

G906 Spare Needles .. .. each

G907 Spare Filling Cannulæ .. .. each



G908

G908 TAYLOR'S SYRINGE OUTFIT, for hæmorrhoidal injection consisting of: one 10 ml. chromium plated all-metal syringe with adjustable depth piston and Labat-fitting nozzle; one angled injection needle 4 in. long, gold plated end fitted with adjustable depth guard and protective cap; one of each straight and angled Schimmel's mounts; *one tube of six Schimmel's needles 1 in. long, stainless steel; in chromium plated case .. .. complete

G909 Spare Angled Needles .. .. each

G910 Spare Schimmel's Needles .. .. per tube

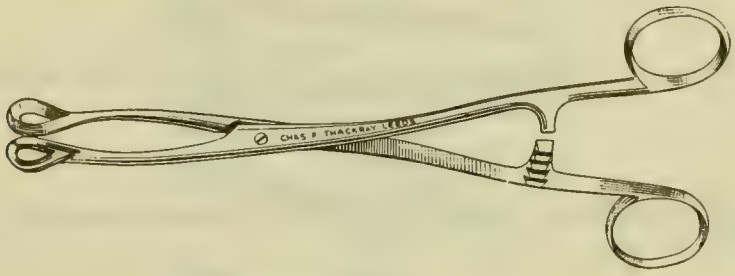
**Not illustrated*



G911

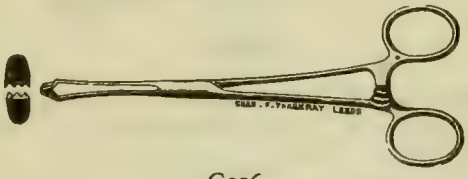
Cat. No.

G911 BRODIE'S DIRECTOR, probe-pointed, sizes: 5½ in., 6½ in. and 8 in., silver, each
G912 Ditto .. nickel plated .. .. each
G913 Ditto .. stainless steel .. .. each



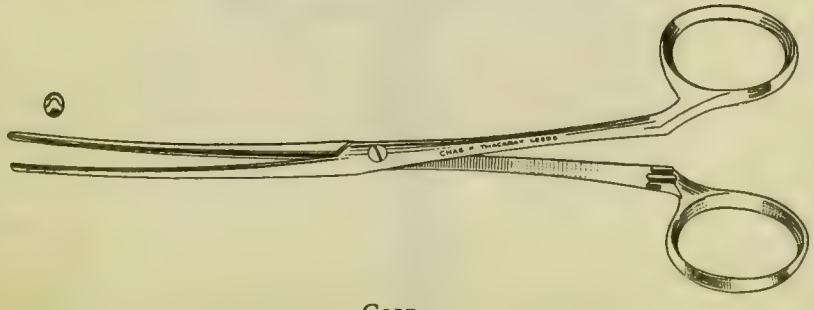
G914

G914 HÆMORRHOIDAL FORCEPS, with grooved jaws, screw joint, 8 in., stainless steel .. .. each



G916

G915 TAYLOR'S HÆMORRHOIDAL FORCEPS, screw joint, 7¼ in., stainless steel, each
G916 Ditto .. box joint .. .. each



G917

G917 BARLING'S HÆMORRHOIDAL SUTURING FORCEPS, curved, screw joint, 6 in., stainless steel .. .. each
G918 Ditto .. straight .. .. each

GENERAL OPERATION INSTRUMENTS

RECTAL



G919

Cat. No.

G919 FERGUSSON'S HÆMORRHOIDAL SCISSORS, angled-on-flat, screw joint, 6½ in., stainless steel .. .. each

G920 Ditto .. 7 in. .. .. each



G921

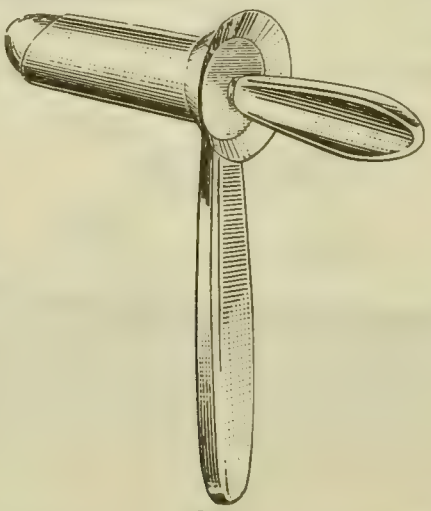
G921 GABRIEL'S RECTAL DILATOR, one size: 1 in. diameter tapering to $\frac{9}{16}$ in., all glass .. .. each



G922

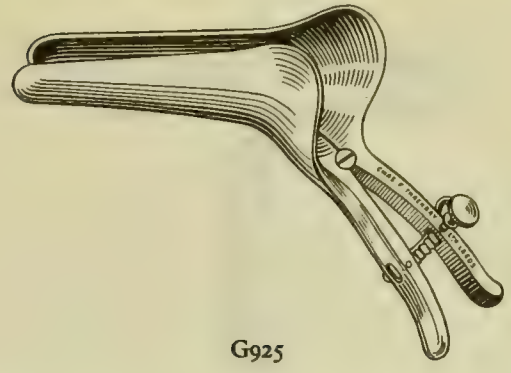
G922 ST. MARK'S HOSPITAL PATTERN RECTAL DILATOR, two sizes: 1 in. diameter tapering to $\frac{5}{8}$ in.; and $\frac{3}{4}$ in. diameter tapering to $\frac{9}{16}$ in., stainless steel, each

G923 Ditto .. "COLDLITE", two sizes .. .. each



G924

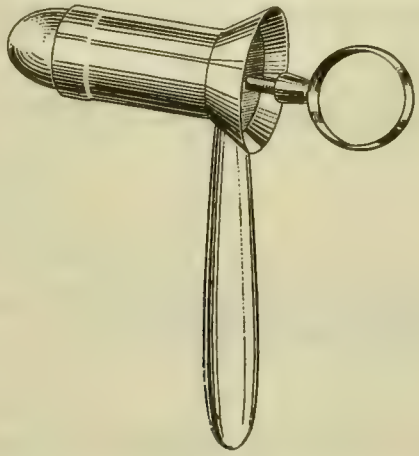
G924 GRAEME ANDERSON'S RECTAL SPECULUM, oblique end, chromium plated .. .. each



G925

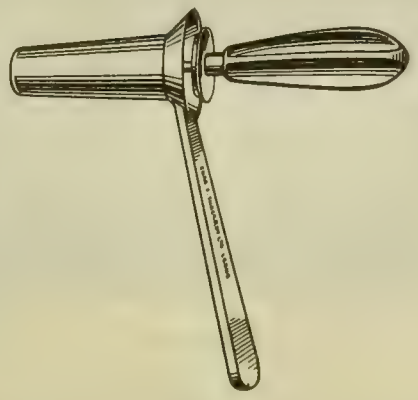
Cat. No.

G925 BAILDON'S RECTAL SPECULUM, bi-valve, chromium plated .. each



G926

G926 BRAITHWAITE'S RECTAL SPECULUM, chromium plated .. each

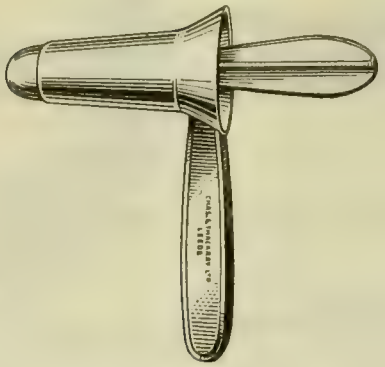


G927

G927 GABRIEL'S RECTAL SPECULUM, adults' size, chromium plated .. each
G928 Ditto .. children's size .. .. each

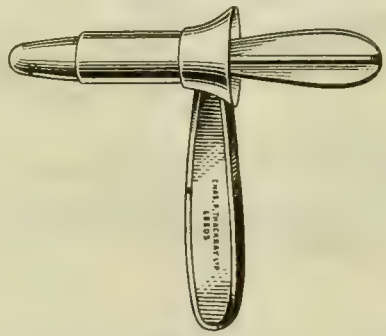
GENERAL OPERATION INSTRUMENTS

RECTAL



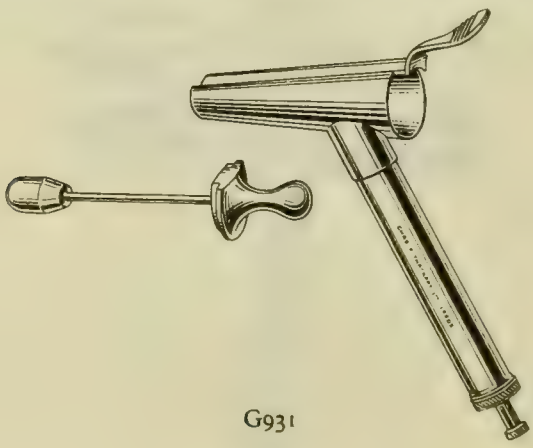
G929

Cat. No.
G929 KELLY'S RECTAL SPECULUM, adults' size, chromium plated .. each



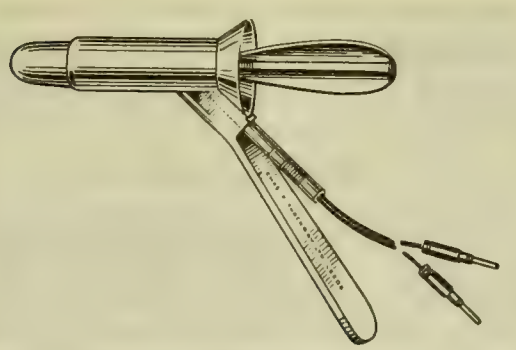
G930

G930 LOCKHART-MUMMERY'S RECTAL SPECULUM, chromium plated, each



G931

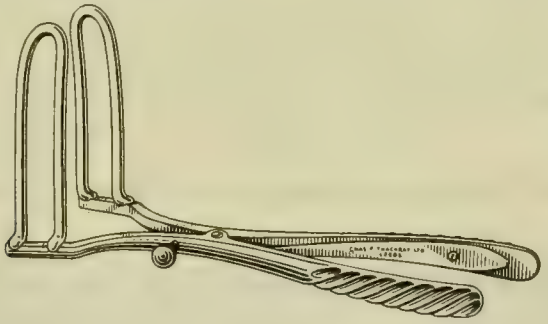
G931 McEVEDY'S RECTAL SPECULUM, with sliding section of speculum, battery handle, chromium plated, complete with battery and one lamp .. .. each
G932 Spare Batteries .. .. each
G933 Spare Lamps, 2·5 volts .. .. each



G934

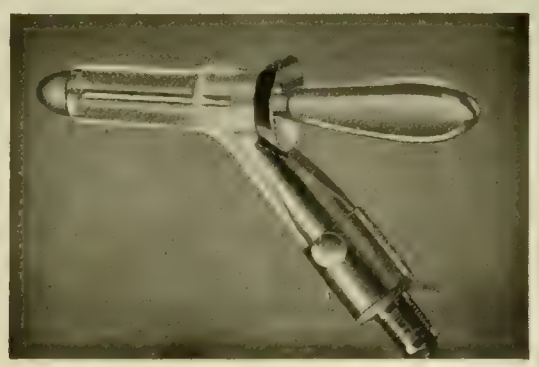
Cat. No.

G934 NAUNTON MORGAN'S RECTAL SPECULUM, with lamp carrier and rubber covered cables, chromium plated .. .. each
G935 Spare Lamps, 3·5 volts .. .. each



G936

G936 SIMS' RECTAL SPECULUM, stainless steel .. .. each

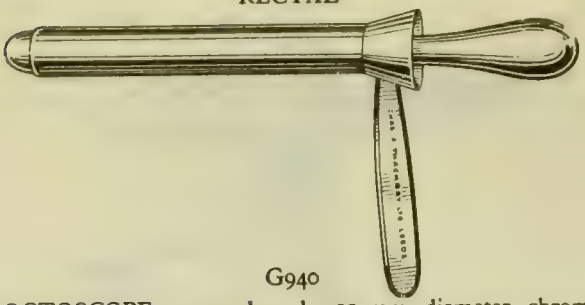


G937 & G939

G937 "COLDLITE" RECTAL SPECULUM, adults' size .. .. each
G938 Ditto .. children's size .. .. each
G939 Light Attachment for above, 6/8 volts .. .. each

NOTE.—Battery Boxes and Transformers: see page G154.

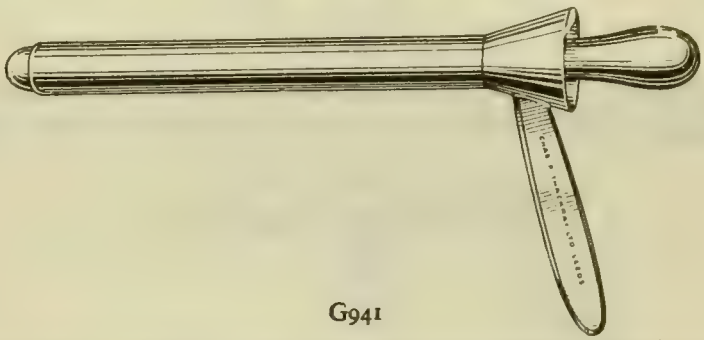
RECTAL



G940

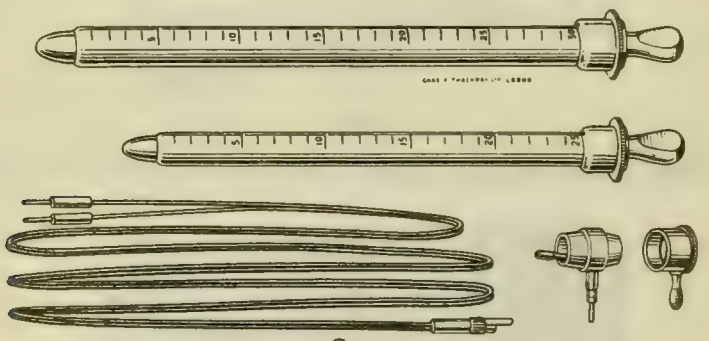
Cat. No.

G940 KELLY'S PROCTOSCOPE, 14 cm. long by 22 mm. diameter, chromium plated, each



G941

G941 KELLY'S PROCTOSCOPE, 20 cm. long by 22 mm. diameter, chromium plated, each



G942

G942 LLOYD-DAVIES' SIGMOIDOSCOPE, combination set, consisting of: chromium plated tube and obturator, graduated, 30 cm. long by 20 mm. diameter, chromium plated tube and obturator, graduated, 25 cm. long by 15 mm. diameter; *proximal* light projector; detachable inflation window; spare lamp and rubber covered cables, in polished wood case .. .. complete

G943 Ditto .. but with one sigmoidoscope tube 30 cm. by 20 mm. and obturator, light projector, window, spare lamp and cables in polished wood case, complete

G944 Ditto .. but with sigmoidoscope tube 25 cm. by 15 mm. .. complete

*G945 Telescope Attachment for above .. .. each

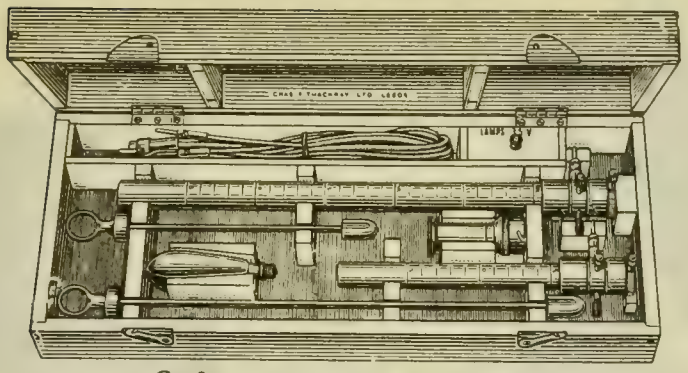
*G946 Inflation Bellows, rubber, for above .. .. each

G947 Spare Lamps, 3·5 volts .. .. each

The Lloyd-Davies Sigmoidoscope is fitted with a "pre-focused" lamp and thus obviates the difficulty of focusing the light correctly at the end of the tube.

NOTE.—Battery Boxes and Transformers: see page G154.

**Not illustrated*



G948

Cat. No.

G948 LOCKHART-MUMMERY'S MODIFIED STRAUSS' SIGMOIDOSCOPE, combination set, consisting of: chromium plated obturator and tube, 30 cm. long by 20 mm. diameter; chromium plated obturator and tube, 15 cm. long by 17 mm. diameter; lamp carriers for *distal lighting*; detachable inflation windows; two spare lamps and rubber covered cables, in polished wood case, *without telescope*, complete

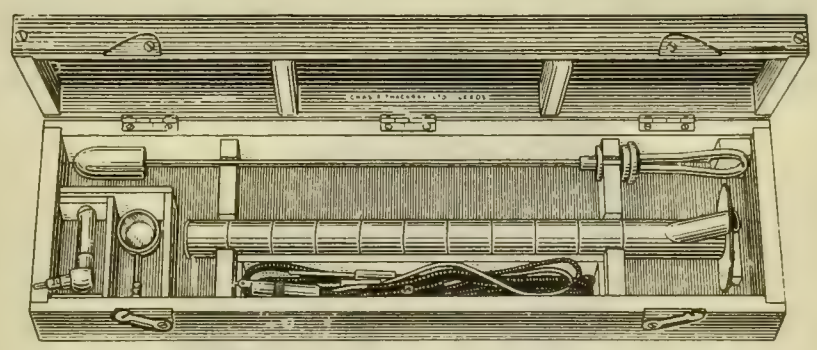
G949 Ditto .. but with one sigmoidoscope tube 30 cm. by 20 mm. and obturator, lamp carrier, window, spare lamp and cables, in polished wood case, complete

G950 Ditto .. but with sigmoidoscope tube 15 cm. by 17 mm. .. complete

*G951 Telescope attachment for above .. .. each

*G952 Inflation Bellows, rubber, for above .. .. each

G953 Spare Lamps, 3·5 volts .. .. each



G954

G954 YEOMAN'S SIGMOIDOSCOPE, consisting of: chromium plated tube and obturator, graduated, 10 in. long by $\frac{7}{8}$ in. diameter; *proximal* light projector; detachable inflation window; spare lamp and rubber covered cables, in polished wood case, complete

*G955 Inflation bellows, rubber, for above .. .. each

G956 Spare Lamps, 3·5 volts .. .. each

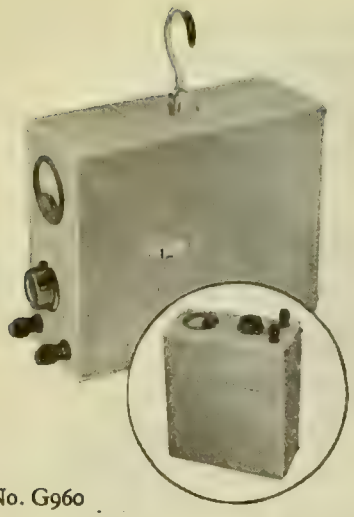
*G957 "COLDLITE" SIGMOIDOSCOPE, consisting of: chromium plated obturator and "Coldlite" tube, 10 in. long by $\frac{15}{16}$ in. diameter; perforated metal tube for sterilizing; telescope; light attachment and rubber covered cables, in polished wood case .. .. complete

G958 Ditto .. but with tube 10 in. long by $\frac{13}{16}$ in. diameter .. complete

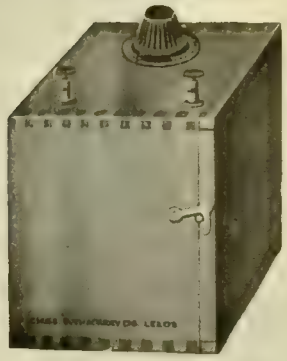
G959 Spare Lamps, 6/8 volts .. .. each

NOTE.—Battery Boxes and Transformers: see page G154.

**Not illustrated*



Cat. No. G960



G962

G960 BATTERY BOX with VOLTMETER, for use with illuminated instruments, with $4\frac{1}{2}$ volts dry cell battery, cream enamelled wood case .. .. complete

G961 Spare Batteries, $4\frac{1}{2}$ volts .. .. each

This Battery Box provides safe illumination for expensive miniature lamps rated up to $4\frac{1}{2}$ volts, by means of a graduated rheostat, which can be adjusted until the exact voltage is shown on the voltmeter.

G962 BATTERY BOX, for use with illuminated instruments, fitted with rheostat and complete with two $4\frac{1}{2}$ volts dry cell batteries, polished wood case .. each

G963 Ditto .. with three $4\frac{1}{2}$ volts dry cell batteries .. .. .. each

G964 Spare Batteries, $4\frac{1}{2}$ volts .. .. each



G965

G965 LIGHT AND CAUTERY TRANSFORMER, A.C. mains, 200/250 volts, unit enclosed in aluminium case with chromium plated front panel, size 6 in. by 3 in. by 3 in., weight approx. $4\frac{1}{2}$ lbs. .. .. each

G966 Ditto .. for light only .. .. each

For full range of transformers, see our separate catalogue section of Electro-Medical Apparatus.



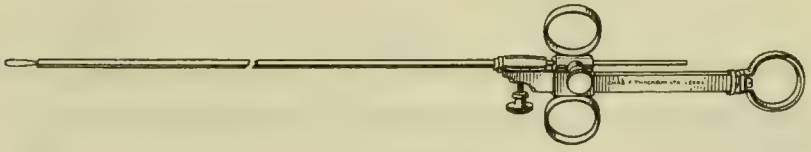
G967

Cat. No.

G967 GALVANO CAUTERY BURNER, for use with sigmoidoscopes, 25 cm. long, each

G968 Ditto .. 40 cm. long .. .. each

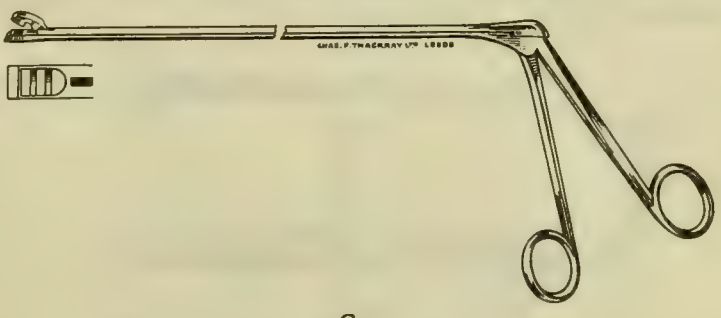
Handle and Cords for above: see our separate catalogue section of Electro-Medical Apparatus.



G969

G969 LOCKHART-MUMMERY'S SNARE, for use with sigmoidoscopes, shaft 40 cm. long, chromium plated .. .. each

G970 Spare Snare Wire for above .. .. per hank



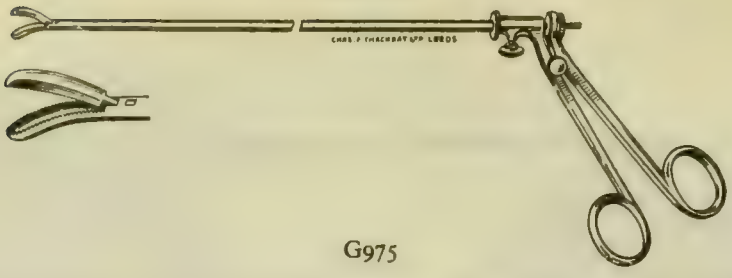
G971

G971 CHEVALIER JACKSON'S RECTAL BIOPSY FORCEPS (as used by Yeoman), shaft 25 cm. long, stainless steel .. .. each

G972 Ditto .. 40 cm. long .. .. each

GENERAL OPERATION INSTRUMENTS

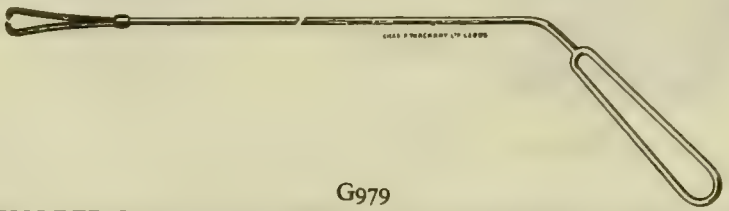
RECTAL



Cat. No. G975

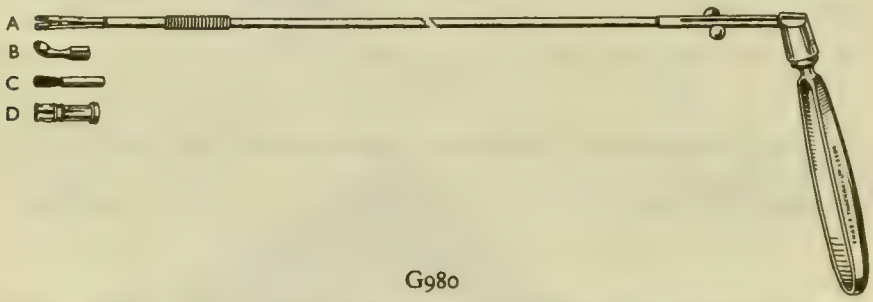
G975 RECTAL BIOPSY FORCEPS, with curved serrated jaws, rotating shaft 25 cm. long, stainless steel .. .. each

G976 Ditto .. 40 cm. long .. .. each



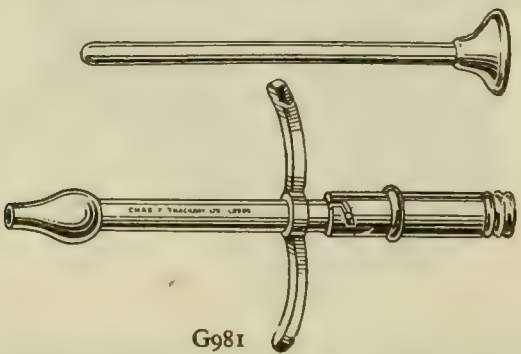
G979

G979 SWAB HOLDER, for use with sigmoidoscopes, 40 cm. long, chromium plated each



G980

G980 APPLICATOR. for use with sigmoidoscopes, with four interchangeable ends: holder (A), curette (B), brush (C) and caustic holder (D), shaft 40 cm. long, hollow handle, chromium plated .. .. each



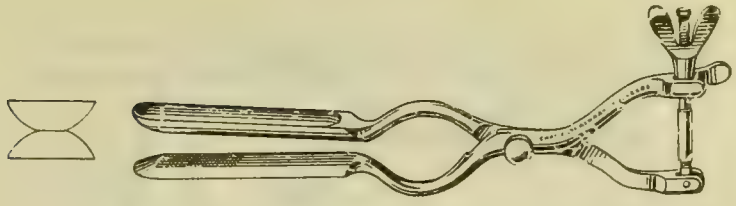
G981

G981 BARIUM ENEMA INTRODUCER, chromium plated .. .. each

*G982 ST. BART'S. HOSPITAL PATTERN CATHETER, for barium enema, with Foley's inflatable type 250 c.c. bag at end .. .. each

*Not illustrated

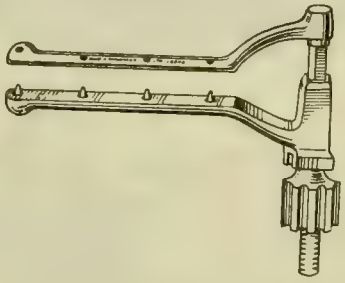
INTESTINAL



G983

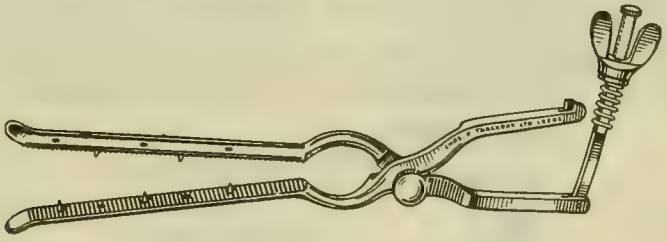
Cat. No.

G983 DEVINE'S ENTEROTOME, stainless steel .. .. .. each



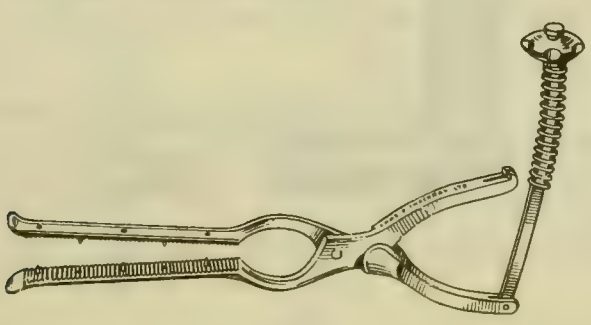
G984

G984 LLOYD-DAVIES' ENTEROTOME, stainless steel .. .. each



G985

G985 McEVEDY'S ENTEROTOME, stainless steel .. .. .. each

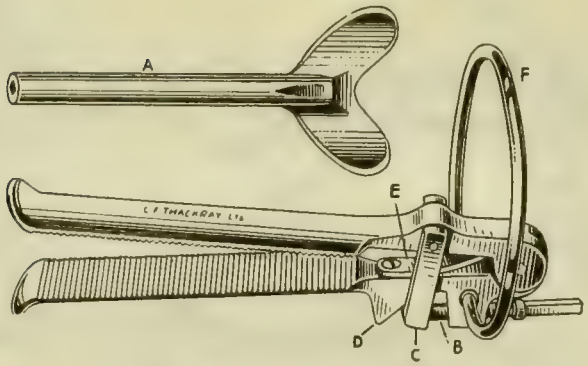


G986

G986 MIKULICZ'S ENTEROTOME, stainless steel .. .. .. each
G987 Ditto .. without spikes on blades .. .. each

GENERAL OPERATION INSTRUMENTS

INTESTINAL



G988

Cat No.

G988 OLDFIELD'S ENTEROTOME, with separate key, stainless steel .. each

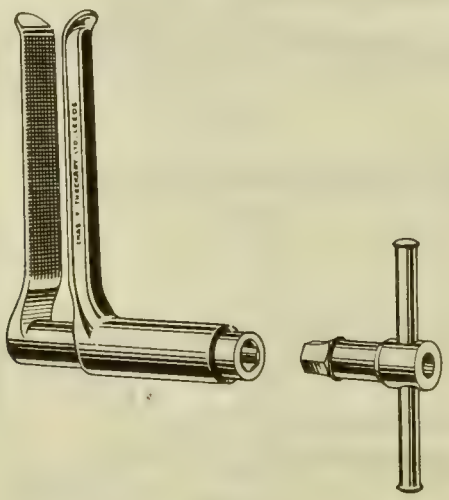
Reprinted from the BRITISH MEDICAL JOURNAL, *December 2nd, 1939, vol. ii. p, 1092*

AN IMPROVEMENT OF THE NON-PROJECTING ENTEROTOME

Mr. MICHAEL C. OLDFIELD, M.B.E., Mc.Ch., F.R.C.S., surgeon to the General Infirmary at Leeds, writes:

In November, 1937, I described a non-projecting enterotome for crushing a colonic spur. The instrument is used before closing a fæcal fistula such as occurs after a Paul-Mikulicz operation or a colostomy. It was devised to obviate the leverage action of the handle which in the older instrument caused great discomfort to the patient. The severity of this discomfort depended directly upon the length of the projecting handle. Whenever the patient moved in bed the handle used to be pressed upon or jarred.

In the non-projecting enterotome the handle has been replaced by a key, which is removed after approximating the blades to the required degree. Each day the key is reapplied to tighten the grip of the spur, and the key is again taken away. The mechanism is simple and strong. By turning the key A the screw B is driven downwards on to the steel collar lever C hinged upon the opposite blade. This collar acts upon the sloping steel shoulder D. As the key is turned the screw and collar are depressed and the blades are gradually approximated. A small flat spring E is inserted between the blades and holds them apart during the application of the instrument to the spur. Maximum separation of the blades has been increased from three-quarters of an inch in the original instrument to one and one-sixteenth inches in the improved model. This has made introduction easier. The face of each blade is transversely serrated and the ends are everted. The width of the serrated jaws has been increased from two and a quarter inches in the original instrument to two and a half inches in the new one. It is found that a better grip of the spur is obtained with the wider blade. A steel ring F two inches in diameter has been inserted through a hole in the shaft near the screw B. The ring moves freely and causes no discomfort when the patient moves. It obviates the danger of the instrument slipping inwards into the bowel—an improvement which we have incorporated following the kindly and constructive criticism of Mr. David Lu·.e of Johannesburg.



G989

G989 SWANSON'S ENTEROTOME, with separate key, stainless steel .. each

The main features of this instrument are: parallel action, positive grip and non-tilting of the blades.

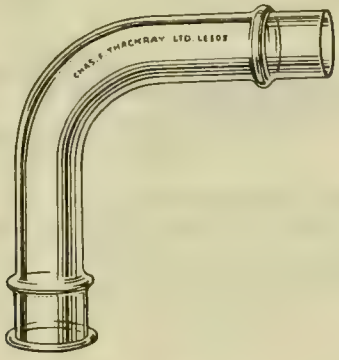


G990

Cat. No.

G990 COLOSTOMY ROD, glass, size 4 in. by $\frac{3}{8}$ in. .. .. .. each

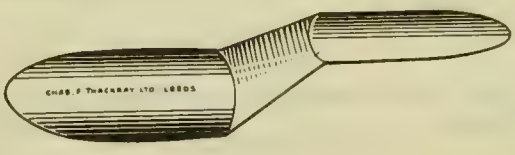
G991 Ditto .. size 4 in. by $\frac{1}{2}$ in. .. .. each



G992

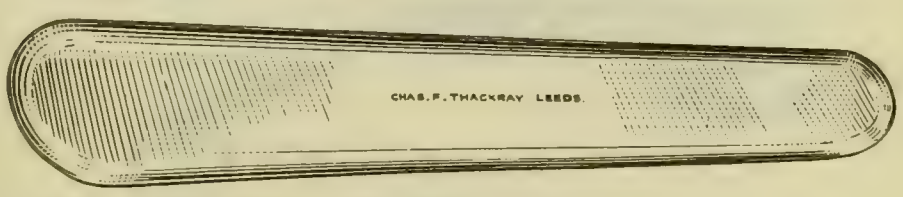
G992 PAUL'S COLOSTOMY TUBES, glass, three sizes: $\frac{1}{2}$ in., $\frac{5}{8}$ in. and $\frac{7}{8}$ in. diameter, each

G993 RUBBER TUBING for above, latex rubber, seamless, three sizes per yard



G994

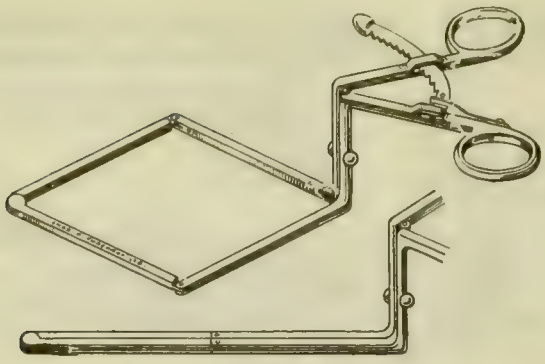
G994 ST. BART'S. HOSPITAL PATTERN INTESTINAL DEPRESSOR, $1\frac{3}{4}$ in. by $1\frac{1}{8}$ in. wide, stainless steel .. .. each



G995

G995 SARGENT'S INTESTINAL DEPRESSOR, tapering $2\frac{1}{2}$ in. to $1\frac{5}{8}$ in. wide, stainless steel .. .. each

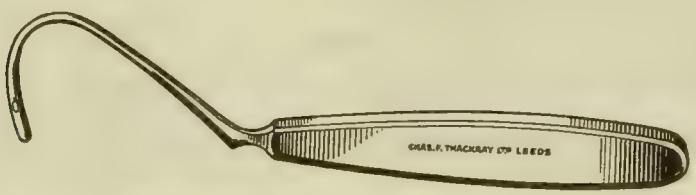
G996 Ditto .. $1\frac{5}{8}$ in. to $1\frac{1}{8}$ in. wide .. .. each



G997

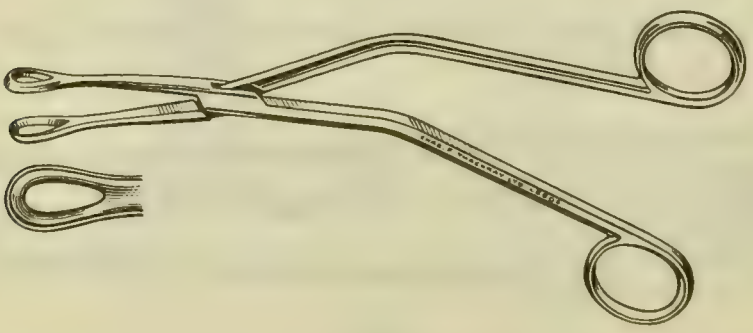
Cat. No.

G997 KADAVY'S INTESTINAL DEPRESSOR, stainless steel .. .. each
For use in suture of the peritoneum. The blades are covered with a length of Paul's rubber tubing and expanded to present a wide surface. When suturing is completed the blades are collapsed and withdrawn through a narrow exit.



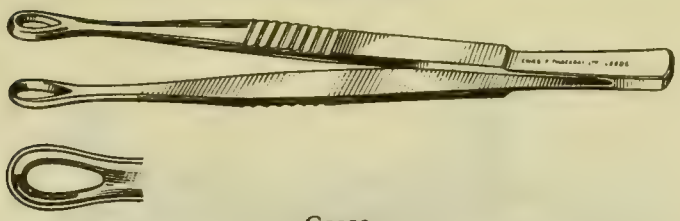
G998

G998 MOYNIHAN'S ANEURYSM NEEDLE, curved laterally, 7¾ in., stainless steel, chromium plated handle .. .. each
For ligation of the mesenteric vessels.



G999

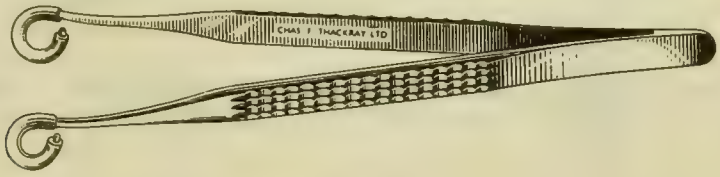
G999 DENIS BROWNE'S INTESTINAL HOLDING FORCEPS, box joint, 8 in., stainless steel .. .. each
Also used as Tonsil Holding Forceps.



G1000

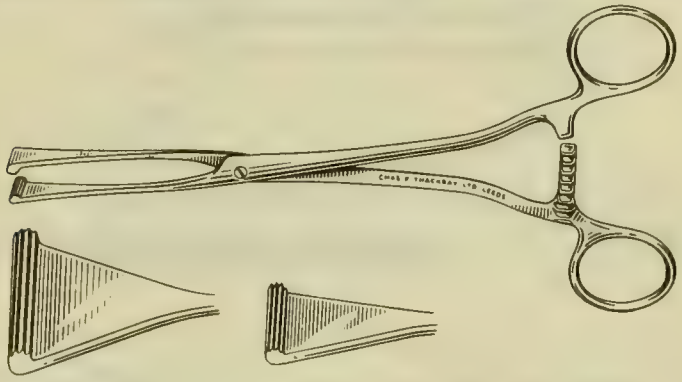
Cat. No.

G1000 DENIS BROWNE'S INTESTINAL HOLDING FORCEPS, 7 in., stainless steel .. .. each



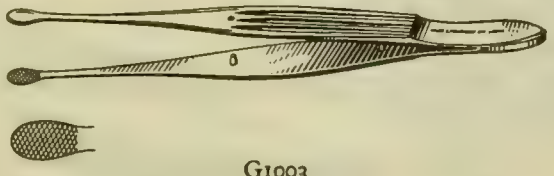
G1001

G1001 COLWYN BAY HOSPITAL PATTERN INTESTINAL HOLDING FORCEPS, with rubber covered jaws, 8 in., stainless steel .. .. each



G1002

G1002 LANE'S INTESTINAL HOLDING FORCEPS, screw joint, 8 in., two sizes jaws: 1 in. and ½ in. wide, stainless steel .. .. each



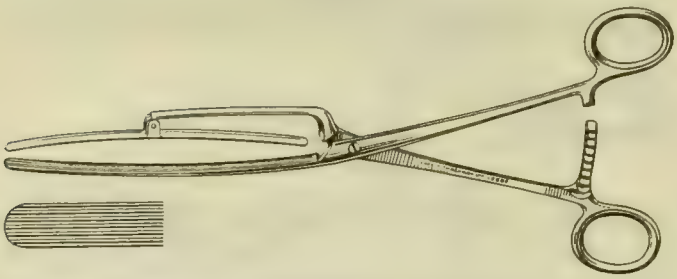
G1003

G1003 MAINGOT'S MODIFIED McINDOE'S INTESTINAL HOLDING FORCEPS, with serrated spatulate jaws, 6 in., stainless steel .. .. each

These forceps are useful for holding the intestines during anastomosis, also in suturing the various layers of the abdominal wall. The fine serrations on the jaws are non-injurious to the tissues.

Vide "Lancet", October 30th, 1948. Page 691.

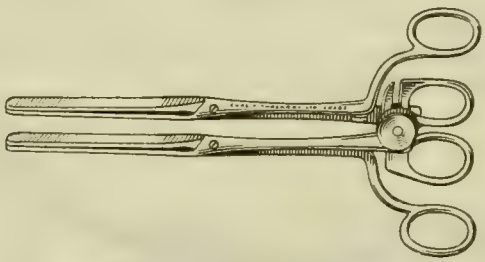
INTESTINAL



G1004

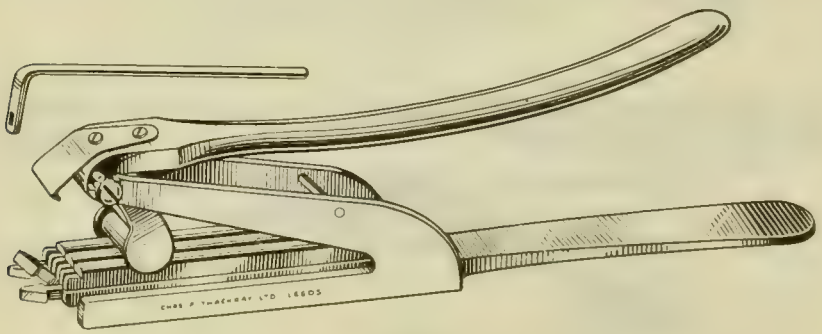
Cat. No.

G1004 BECK'S INTESTINAL CLAMP, screw joint, $11\frac{1}{8}$ in., stainless steel .. each
The upper blade is swivelled to provide uniform pressure.



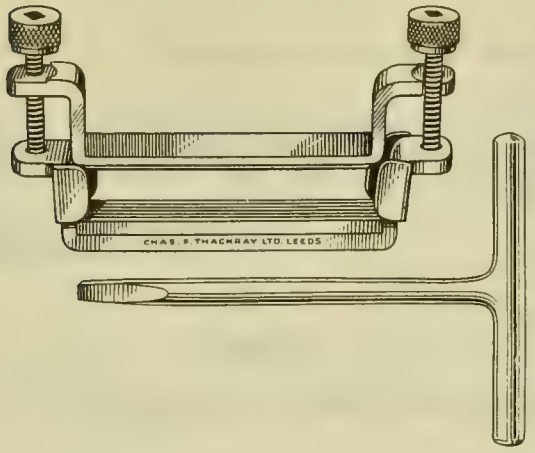
G1005

G1005 CARWARDINE'S INTESTINAL CLAMP, twin, screw joints, $7\frac{3}{4}$ in., stainless steel .. .. each



G1006

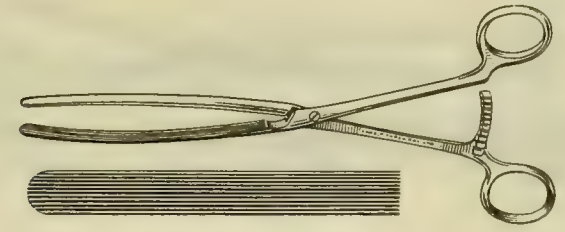
G1006 ZACHARY COPE'S INTESTINAL CLAMP, with tommy bar and three hinged segments, stainless steel .. .. each
G1007 Spare Segments, separate, stainless steel .. .. each
This instrument is now fitted with a metal clip on the upper limb to hold the segments open when being handed to the surgeon.



G1008

Cat. No.

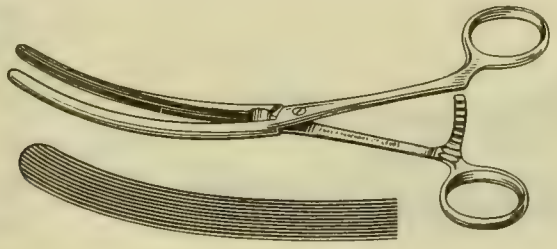
G1008 DEVINE'S "BOX CLAMP", for rectosigmoid resection, with separate key, stainless steel .. .. each



G1009

G1009 DOYEN'S INTESTINAL CLAMP, straight, screw joint, 9 in., stainless steel, each

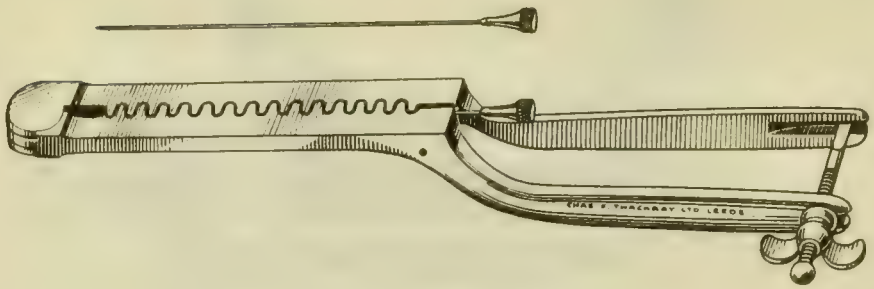
G1010 Ditto .. box joint .. .. each



G1011

G1011 DOYEN'S INTESTINAL CLAMP, curved-on-flat, screw joint, 9 in., stainless steel .. .. each

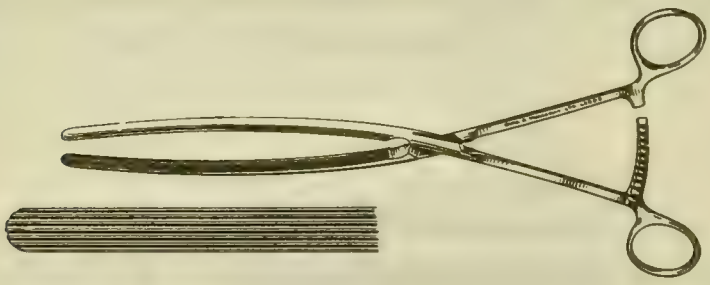
G1012 Ditto .. box joint .. .. each



G1013

Cat. No.

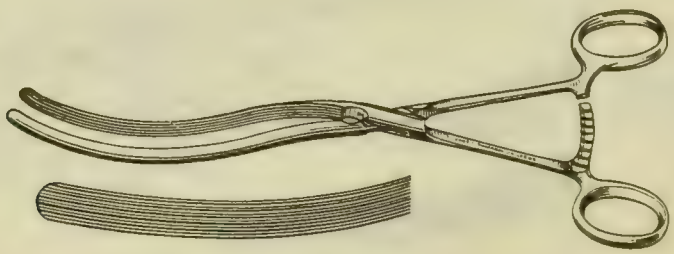
G1013 FURNISS' INTESTINAL CLAMP, for anastomosis, with two pins, stainless steel .. .. each



G1015

G1014 KOCHER'S INTESTINAL CLAMP, straight, box joint, 10 in., with 5 in. blades, stainless steel .. .. each

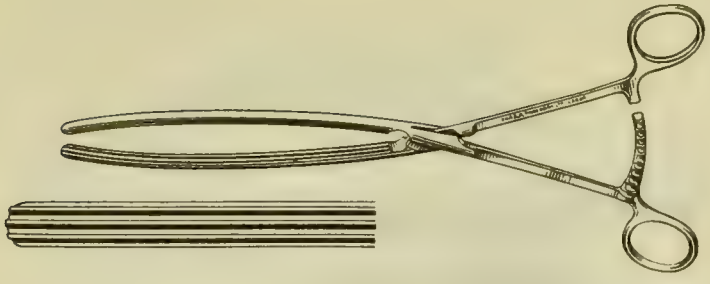
G1015 Ditto .. 11 in., with 6 in. blades .. .. each



G1017

G1016 KOCHER'S INTESTINAL CLAMP, curved-on-flat, box joint, 10 in., with 5 in. blades, stainless steel .. .. each

G1017 Ditto .. 11 in., with 6 in. blades .. .. each

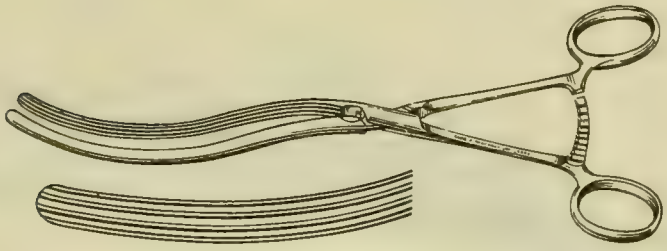


G1019

Cat. No.

G1018 KOCHER'S INTESTINAL CLAMP, straight, extra light, box joint, 10 in., with 5 in. blades, stainless steel .. .. each

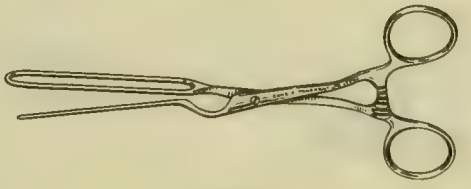
G1019 Ditto .. 11 in., with 6 in. blades .. .. each



G1021

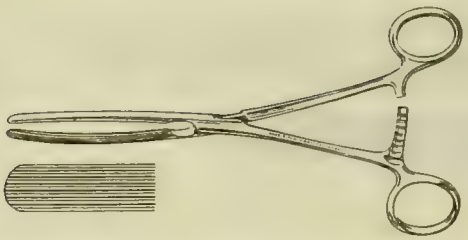
G1020 KOCHER'S INTESTINAL CLAMP, curved-on-flat, extra light, box joint, 10 in., with 5 in. blades, stainless steel .. .. each

G1021 Ditto .. 11 in., with 6 in. blades .. .. each



G1022

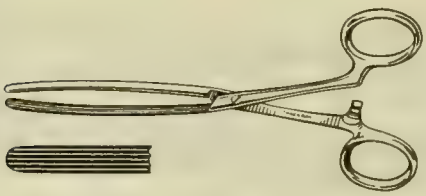
G1022 KOCHER'S INTESTINAL CLAMP, straight, screw joint, 7½ in., stainless steel .. .. each



G1023

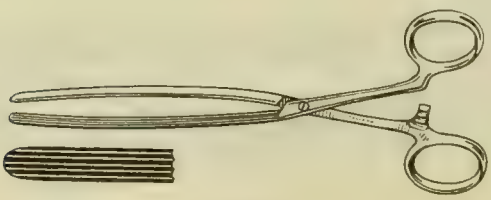
Cat. No.

G1023 LANE'S INTESTINAL CLAMP, straight, box joint, 7½ in., with 3 in. blades, stainless steel .. .. each



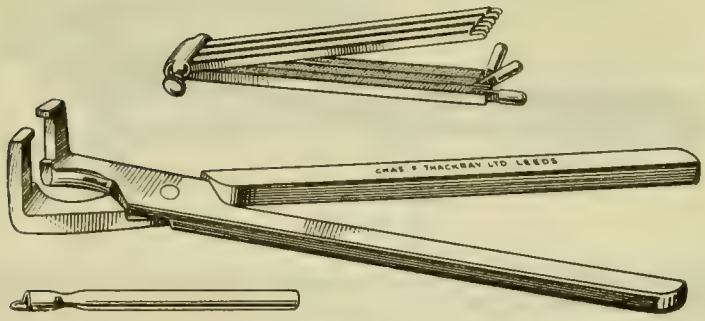
G1024

G1024 MAKIN'S INTESTINAL CLAMP, straight, screw joint, 7 in., with 3½ in. blades, stainless steel .. .. each



G1025

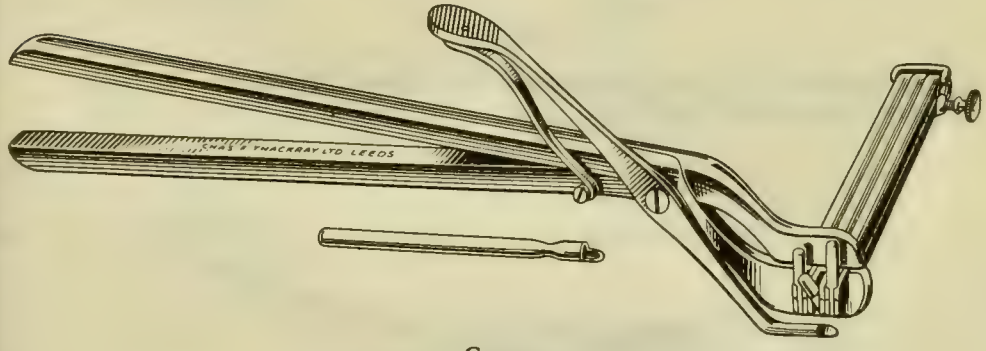
G1025 MAKIN'S INTESTINAL CLAMP, straight, screw joint, 8 in., with 4¾ in. blades, stainless steel .. .. each



G1026

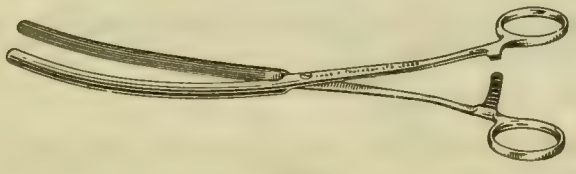
Cat. No.

G1026 de MARTEL'S INTESTINAL CLAMP, with tommy bar and three hinged segments, stainless steel .. .. each



G1027

G1027 de MARTEL'S INTESTINAL CLAMP, improved pattern, with thumb-lever, tommy bar and three hinged segments, stainless steel .. .. each



G1028

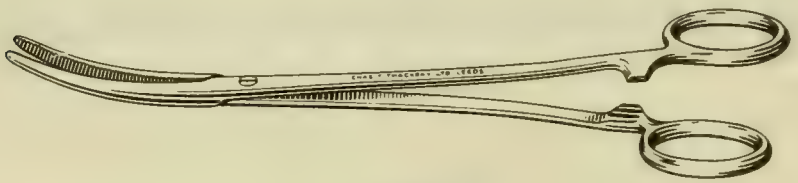
G1028 MAYO ROBSON'S GASTRO-ENTEROSTOMY CLAMP, curved-on-flat, screw joint, 9½ in., stainless steel .. .. each



G1029

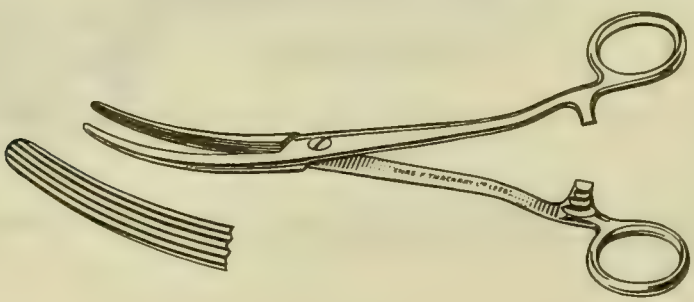
Cat. No.

G1029 MOYNIHAN'S INTESTINAL CLAMP, straight, screw joint, 8 in., with 3½ in. fenestrated blades, stainless steel .. .. each



G1030

G1030 MOYNIHAN'S INTESTINAL CLAMP, curved-on-flat, screw joint, 9 in., with 2¼ in. blades, stainless steel .. .. each



G1031

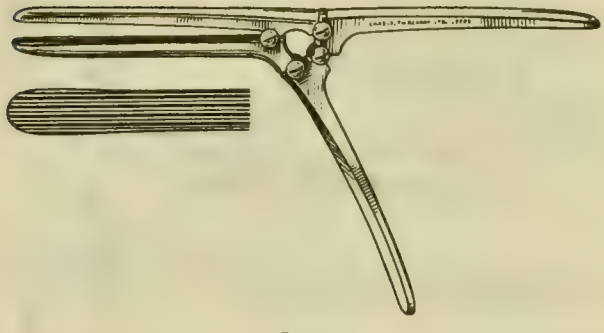
†G1031 PARKER-KERR'S INTESTINAL CLAMP, curved-on-flat, screw joint, 9 in., with 2¼ in. blades, stainless steel .. .. each

G1032 Ditto .. 10 in., with 3¼ in. blades .. .. each

G1033 PARKER-KERR'S INTESTINAL CLAMP, straight, screw joint, 9 in., with 2¼ in. blades, stainless steel .. .. each

G1034 Ditto .. 10 in., with 3¼ in. blades .. .. each

†*Lloyd-Davies' Protection Shields—see page* AD849

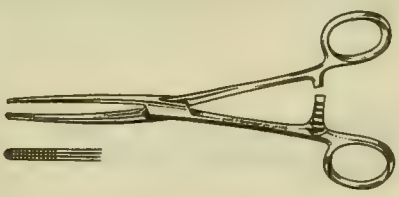


G1036

Cat. No.

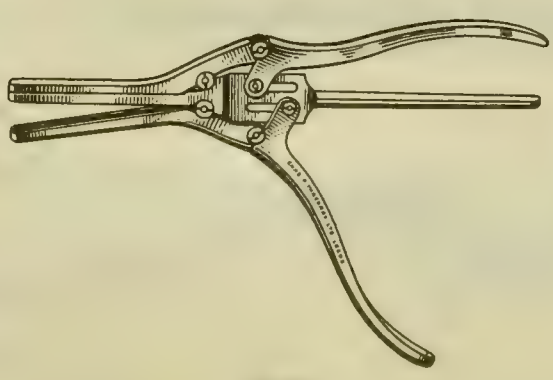
G1035 PAYR'S INTESTINAL CLAMP, multiple joints, 8 in., with 2½ in. blades, stainless steel .. .. each

G1036 Ditto .. 9 in., with 4 in. blades .. .. each



G1037

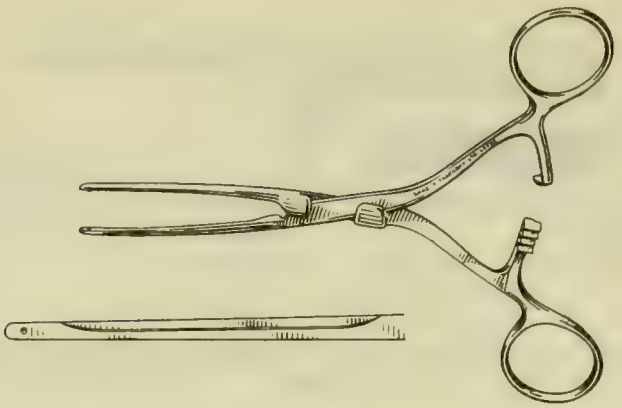
G1037 SETON PRINGLE'S INTESTINAL CLAMP, straight, box joint, 6½ in., with 2½ in. blades, stainless steel .. .. each



G1038

G1038 RANKIN'S INTESTINAL CLAMP, multiple joints, 9 in., with three 3¼ in. blades, stainless steel .. .. each

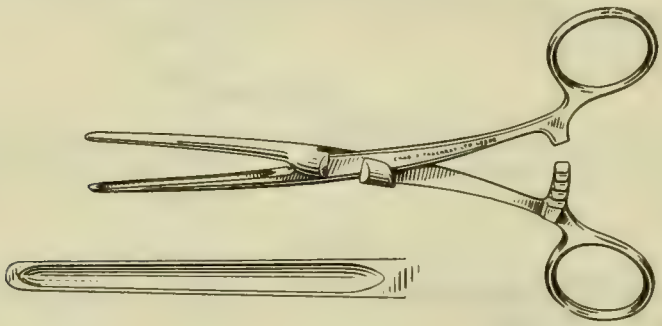
The two side blades operate independently against a fixed centre blade.



G1039

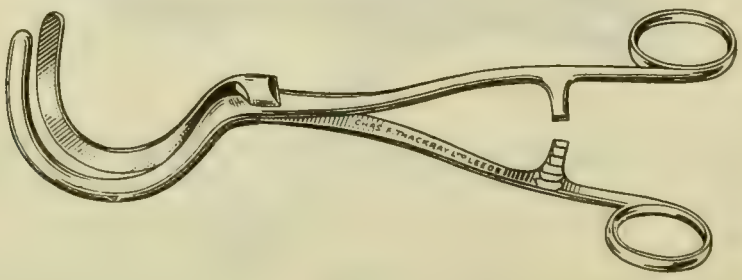
Cat. No.

G1039 SCHOEMAKER'S COLECTOMY CLAMP, aseptic joint, 6¼ in., with 2¼ in. blades, stainless steel .. .. each



G1040

G1040 SCHOEMAKER-OGILVIE'S COLECTOMY CLAMP, aseptic joint, 6½ in., with 2¼ in., hollowed-out blades, stainless steel .. .. each



G1041

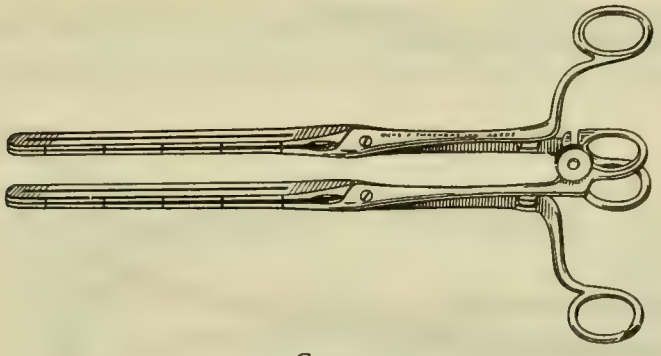
G1041 SMITH'S INTESTINAL CLAMP, aseptic joint, 8 in., stainless steel each
As used at the General Infirmary at Leeds, for anastomosis of the common bile duct or the gall bladder to the duodenum.



G1042

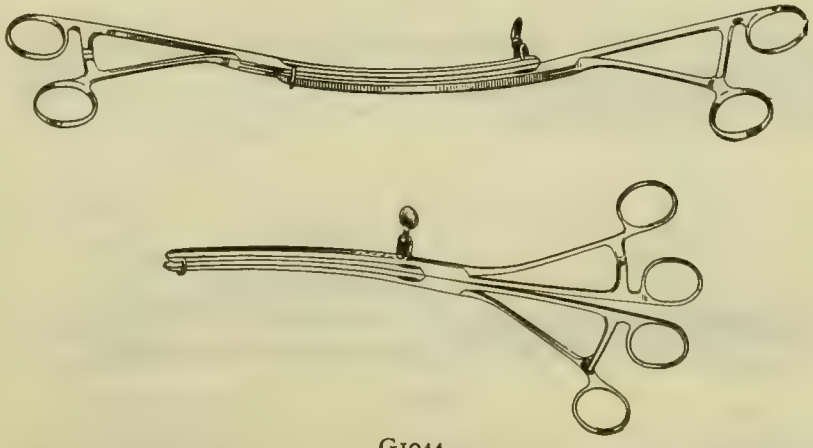
Cat. No.

G1042 TAYLOR'S CÆCAL CLAMP, aseptic joint, 9 in., stainless steel .. .. each



G1043

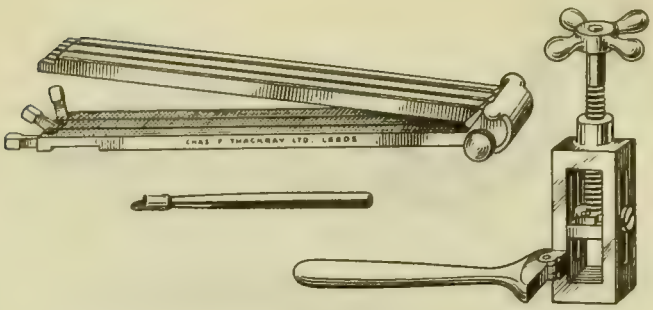
G1043 CARWARDINE'S STOMACH CLAMP, twin, screw joints, 10¾ in., stainless steel .. .. each



G1044

G1044 LANE'S STOMACH CLAMP, twin, curved-on-flat, box joints, 12 in., stainless steel .. .. each

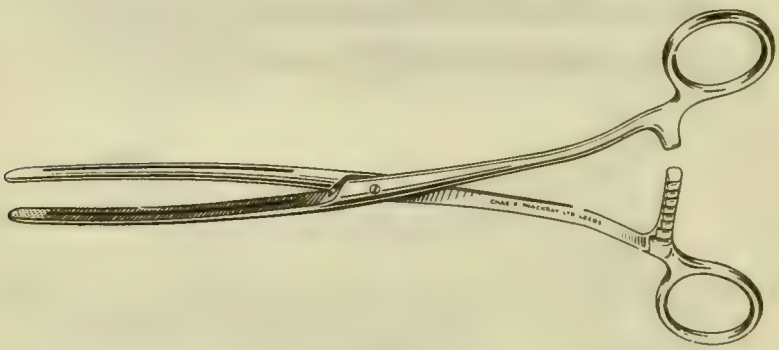
G1045 Ditto .. straight .. .. each



G1046

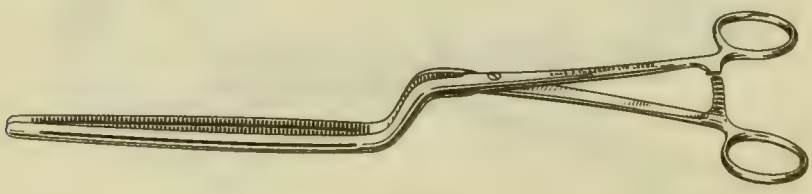
Cat. No.

G1046 de MARTEL'S STOMACH CLAMP, with tommy bar and three hinged segments, stainless steel, chromium plated holder .. .. each



G1047

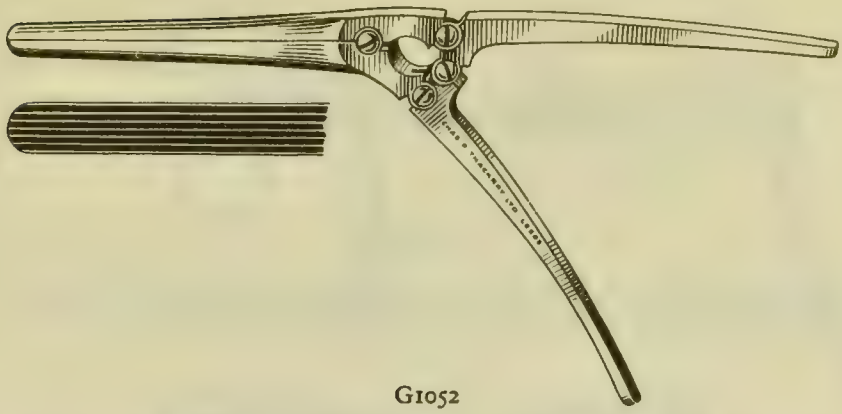
G1047 MOYNIHAN'S STOMACH CLAMP, straight, screw joint, 11 in., with 4½ in. fenestrated blades, stainless steel .. .. each
G1048 Ditto .. 12 in., with 5 in. blades .. .. each
G1049 Ditto .. 13 in., with 5½ in. blades .. .. each



G1050

G1050 MOYNIHAN'S STOMACH CLAMP, screw joint, 13 in., cranked fenestrated blades, stainless steel .. .. each
*G1051 Ditto .. curved-on-flat .. .. each

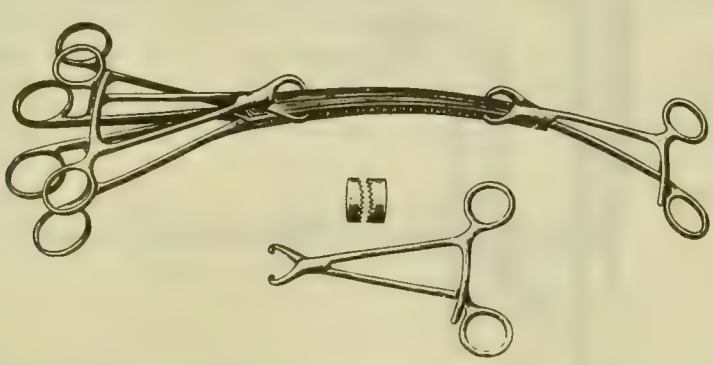
Not illustrated



G1052

Cat. No.

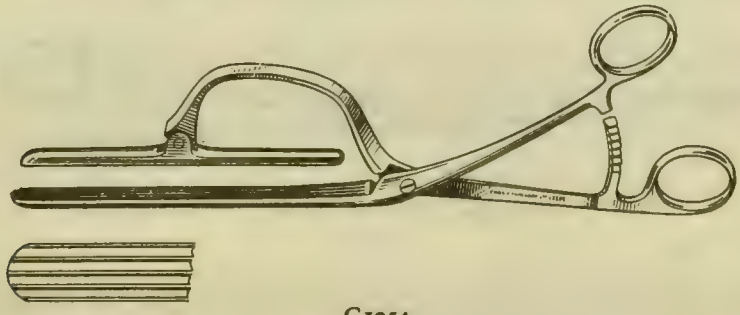
G1052 PAYR'S STOMACH CLAMP, multiple joints, 14 in., with 6 in. blades, stainless steel .. .. each



G1053

G1053 SWANSON'S STOMACH CLAMP, twin, curved-on-flat, box joints, 12 in., with two holding forceps, stainless steel .. .. .. complete

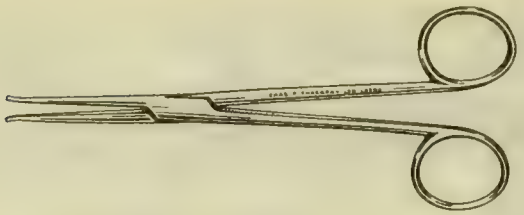
This instrument is a modification of Lane's with special hook type holding forceps to permit any thickness to be clamped and securely held. Both clamps can be used separately or as ordinary bowel clamps.



G1054

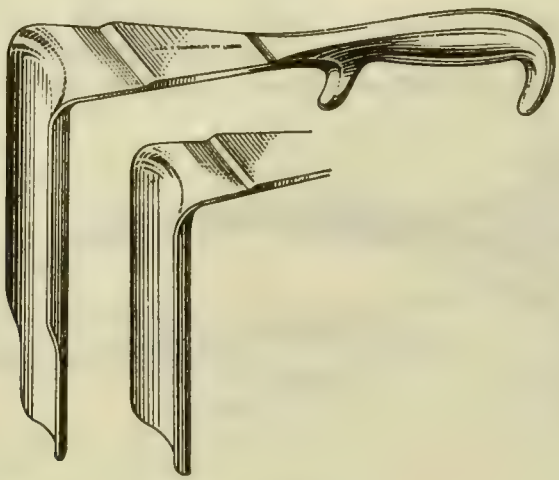
G1054 SOMERVELL'S STOMACH CLAMP, screw joint, 12¼ in., stainless steel each

The upper blade is swivelled to provide uniform pressure.



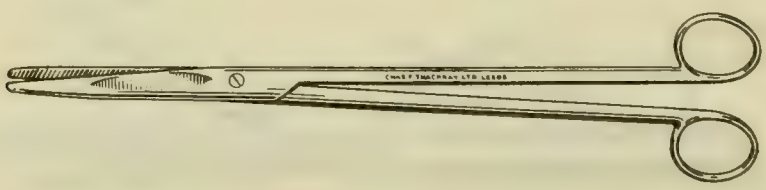
G1055

Cat. No.
G1055 DENIS BROWNE'S DILATING FORCEPS, box joint, 5 in., stainless steel, each
For dilating the pylorus in the surgical treatment of pyloric stenosis.



G1056 G1057

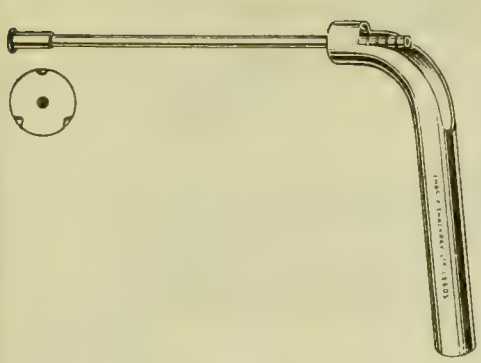
G1056 ST. MARK'S HOSPITAL PATTERN RETRACTOR, with chromium plated shaped hollow handle and stainless steel blade, 7 in. deep by $2\frac{3}{8}$ in. wide, shaped at end .. .. each
G1057 Ditto .. blade 5 in. deep by $2\frac{3}{8}$ in. wide .. .. each
For use in the abdomino-perineal operation for excision of the rectum.



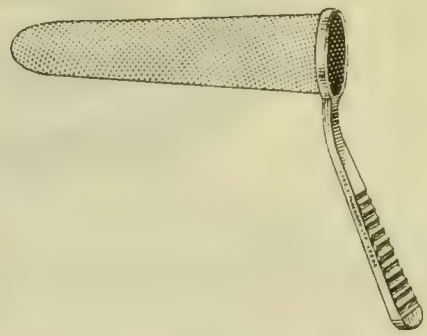
G1058

G1058 ABEL'S ABDOMINO-PERINEAL SCISSORS, straight, with blunt points and chamfered blades, $12\frac{1}{2}$ in., stainless steel .. .. each

NOTE.—Modified Lace's Retractor with two abdominal blades only, for abdomino-perineal excision of the rectum, as used at The General Infirmary at Leeds, see page G91.
General Retractors: see pages G76–G93.



G1059

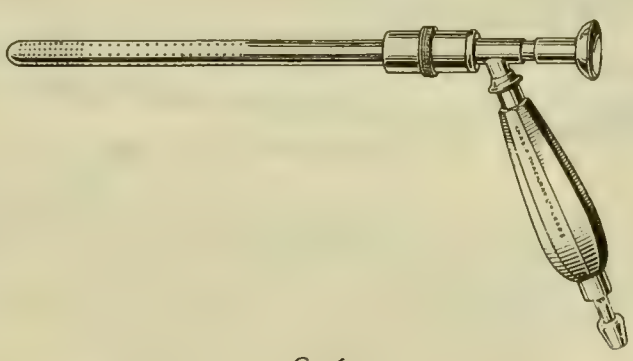


G1060

Cat. No.

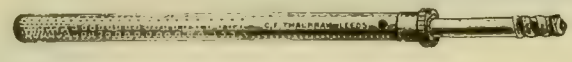
G1059 DENIS BROWNE'S SUCTION TUBE, chromium plated .. .. each
The large bore metal tube attached to the tubing mount provides reinforcement for rubber tubing to prevent kinking and also serves as a handle.

G1060 DENIS BROWNE'S SUMP, chromium plated .. .. .. each
For evacuation of fluid from the abdominal cavity. Any suction tube (metal or rubber) with an open end can be used, as the perforations on the sump permit continuous filtering of fluid and prevent blockage of the suction tube by bowel, etc.



G1061

G1061 SIMPSON-SMITH'S SUCTION TUBE, with thumb-button control, detachable inner suction tube and perforated sheath 31 French Catheter Gauge, chromium plated .. .. each

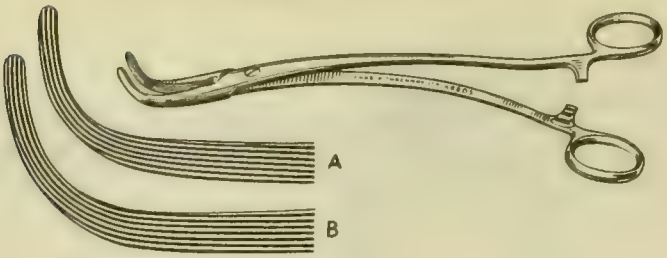


G1062

G1062 WHEELER'S OR POOLE'S SUCTION TUBE, detachable inner suction tube, with straight tubing mount and perforated sheath 29 French Catheter Gauge, chromium plated .. .. each

G1063 Ditto .. with curved mount .. .. each

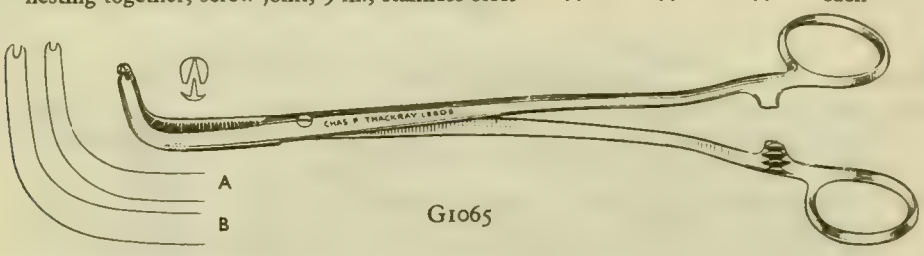
GALL BLADDER



G1064

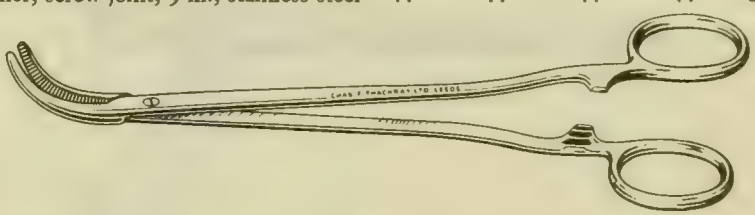
Cat No.

G1064 GEARY GRANT'S CHOLECYSTECTOMY FORCEPS, two curves: A and B, nesting together, screw joint, 9 in., stainless steel .. .. .. each



G1065

G1065 GRAY'S CHOLECYSTECTOMY FORCEPS, two curves: A and B, nesting together, screw joint, 9 in., stainless steel .. .. each



G1066

†G1066 MOYNIHAN'S CHOLECYSTECTOMY FORCEPS, curved-on-flat, screw joint, 8½ in., stainless steel .. .. each

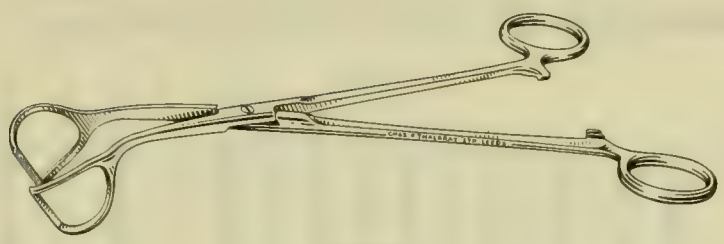
†*Also available with Box Joint—see page* AD856



G1067

G1067 TURNER WARWICK'S CHOLECYSTECTOMY FORCEPS, curved-on-flat, screw joint, 7¾ in., stainless steel .. .. each

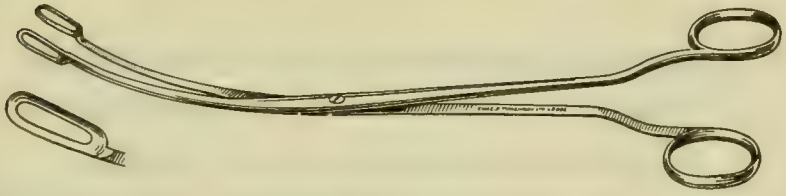
The jaws of these forceps nest inside those of Fig. G1066.



G1068

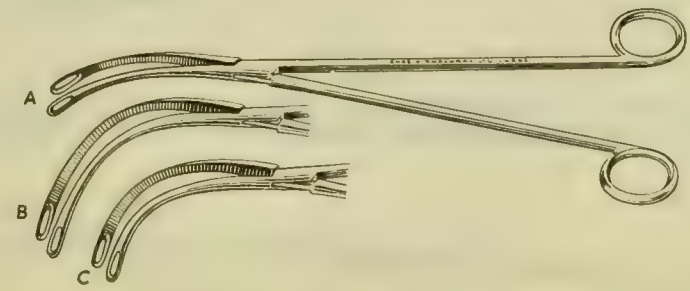
Cat. No

G1068 MOUAT'S GALL BLADDER HOLDING FORCEPS, screw joint, 8¼ in., stainless steel .. .. each



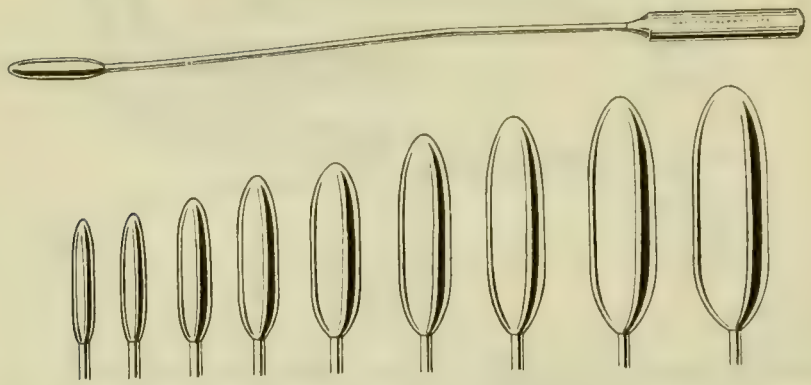
G1069

G1069 DESJARDINS' GALL STONE FORCEPS, screw joint, 8¾ in., stainless steel, each
These forceps are also used for renal calculi, see page G185.



G1070

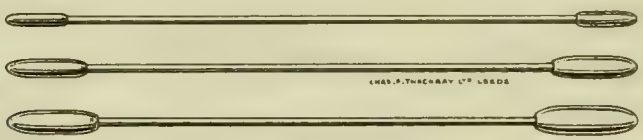
G1070 MAINGOT'S GALL STONE FORCEPS, three shapes: A, B and C, box joints, stainless steel .. .. each



G1071

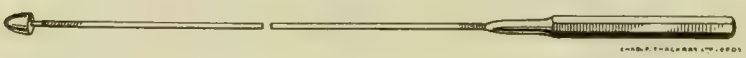
Cat. No.

G1071 BAKES' DILATORS, for the common bile duct, set of nine: 3 mm. to 11 mm. diameter of head, malleable shaft, chromium plated .. .. .. per set



G1072

G1072 MAINGOT'S DILATORS, for the common bile duct, double-ended, set of three: 3 mm. and 4 mm., 5 mm. and 6 mm., 7 mm. and 8 mm. diameter of head, malleable shaft, chromium plated .. .. per set



G1073

G1073 DESJARDINS' GALL STONE PROBES, three sizes: 5 mm., 6 mm. and 7 mm. diameter of head, flexible spring shaft, stainless steel .. .. each



G1074

G1074 MAYO'S (or Fenger's) GALL STONE PROBE, flexible spiral shaft, with stilette, nickel-silver, silver plated .. .. each



G1075

Cat. No.

G1075 MOYNIHAN'S GALL STONE PROBE and SCOOP, malleable pewter, each



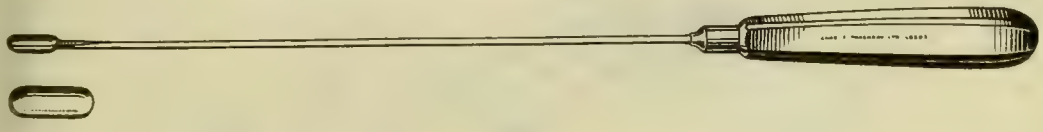
G1076

G1076 CHEATLE'S GALL STONE SCOOP and HOOK, rigid, stainless steel, each



G1077

G1077 DESJARDINS' GALL STONE SCOOPS, three sizes: 5 mm., 6 mm. and 7 mm. diameter of head, flexible spring shaft, stainless steel .. .. each



G1078

G1078 MAYO'S GALL STONE SCOOP, malleable shaft, chromium plated each

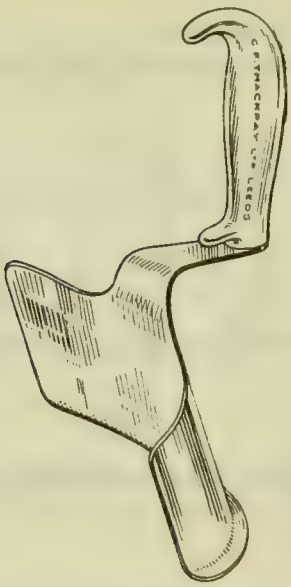


G1079

G1079 MOYNIHAN'S GALL STONE SCOOP, double-ended, rigid, stainless steel, each

GENERAL OPERATION INSTRUMENTS

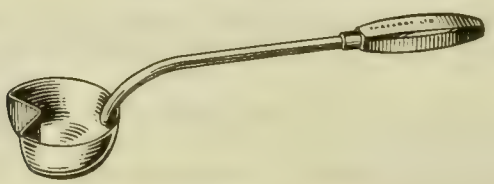
GALL BLADDER



G1080

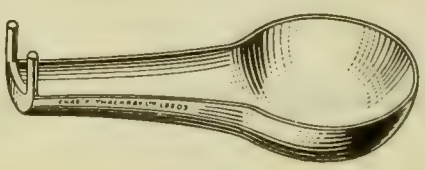
Cat. No.

G1080 SAINT'S GALL BLADDER RETRACTOR, stainless steel, chromium plated hollow handle .. .. each



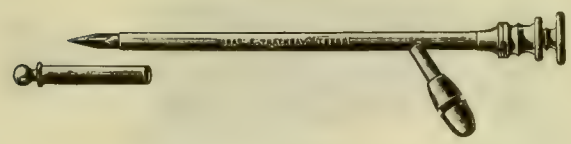
G1081

G1081 MOORE'S BILE SPOON, chromium plated .. .. .. each



G1082

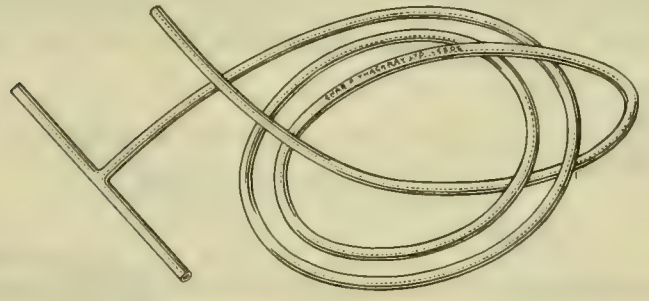
G1082 UPCOTT'S BILE TRAY, chromium plated .. .. .. each



G1083

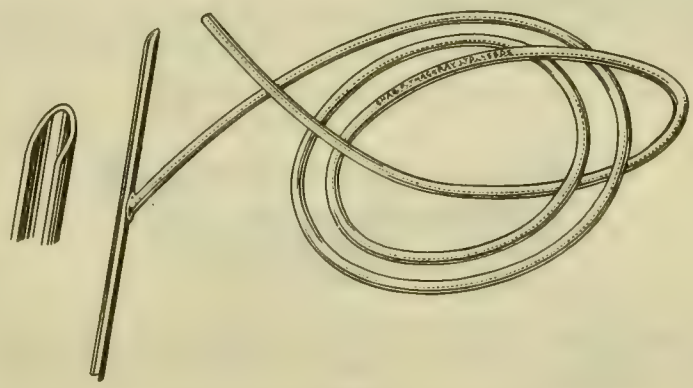
Cat. No.

G1083 OCHSNER'S GALL BLADDER TROCAR, three sizes: 9, 14 and 20 French Catheter Gauge, stainless steel trocar, chromium plated cannula, side-branch and protective cap .. .. each



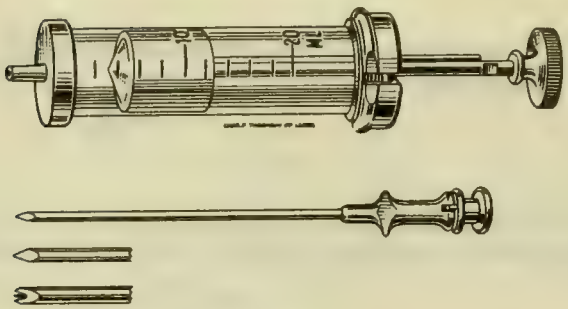
G1084

G1084 KEHR'S T-TUBE, for drainage of the common bile duct, rubber, six sizes: 6, 8, 10, 12, 14 and 16 English Catheter Gauge .. .. each



G1085

G1085 MAINGOT'S Modified KEHR'S T-TUBE, for drainage of the common bile duct, rubber, six sizes: 6, 8, 10, 12, 14 and 16 English Catheter Gauge .. each
The transverse tube is split and set at an oblique angle.



G1086

Cat. No.

G1086 FREEDMAN AND FRANSEEN'S LIVER BIOPSY SET, consisting of: 20 ml. syringe with Luer fitting nozzle, stainless steel trocar and cutting-edged cannula, 3½ in. long by 2·5 mm. diameter, with Luer fitting Mount, in nickel plated case, complete

G1087 Trocar and Cannula only .. .. each

G1088 Syringe only .. .. each

The syringe has a special twist-lock piston rod which will fix the piston at any desired position along the barrel.



G1089

G1089 SHERLOCK'S LIVER BIOPSY TROCAR and CANNULA, stainless steel sharp-edged cannula, 6 in. long by 1·5 mm. diameter, Record fitting; stainless steel trocar and chromium plated handle .. .. each

G1090 Luer to Record Adaptor for above .. .. each



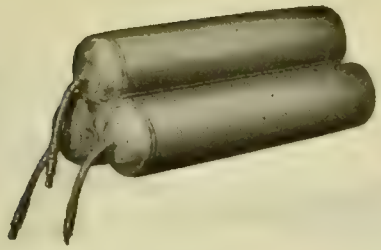
G1091

G1091 SILVERMAN'S LIVER BIOPSY NEEDLE, consisting of: outer needle 3⅜ in. long by 13 B.W.G. (2·40 mm.), obturator and split inner needle, stainless steel, Record or Luer fitting .. .. each

G1092 Ditto .. children's size: 2⅜ in. long by 14 B.W.G. (2·10 mm.) .. each

The obturator is used with the outer needle for initial introduction, and then replaced by the split inner needle which is rotated to cut a specimen of liver.

NOTE.—*Liver Retractors: Deaver's and Kelly's, see pages* G77 and G81.

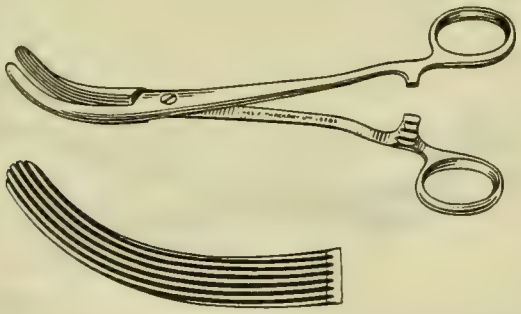


G1093

Cat. No.

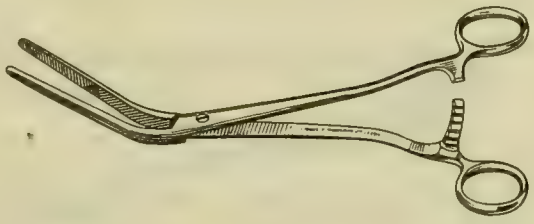
G1093 NEWMAN'S KIDNEY CUSHION, inflatable, consisting of three rubber cylinders, each 18 in. long by 3 in. diameter and fitted with valves .. .. each

*G1094 Hand Pump for inflating above .. .. each



G1095

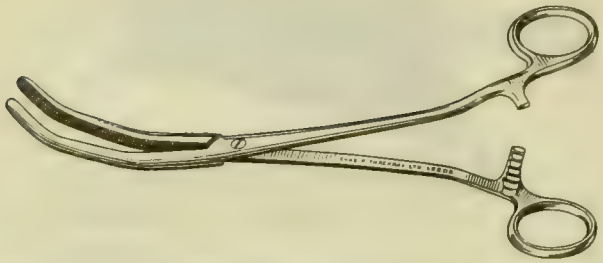
G1095 GALBRAITH'S modified WADE'S KIDNEY PEDICLE CLAMP, curved-on-flat, screw joint, 8¾ in., stainless steel .. .. each



G1096

G1096 IRWIN'S KIDNEY PEDICLE CLAMP, angled-on-flat, with two-way oblique serrations on jaws, screw joint, 9½ in., stainless steel .. .. .. each

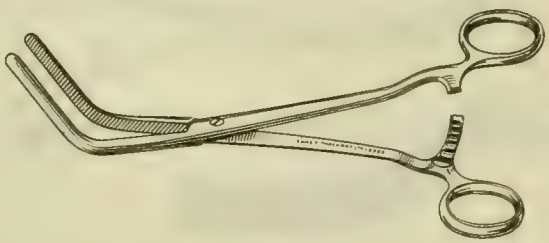
**Not illustrated*



G1097

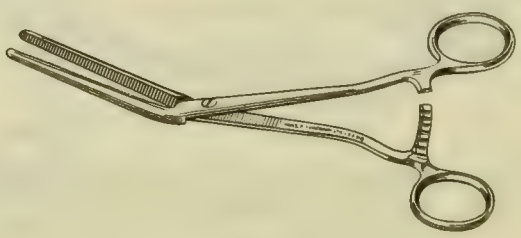
Cat. No.

G1097 MAYO CLINIC PATTERN (modified Herrick's) KIDNEY PEDICLE CLAMP, with double-angulated jaws, screw joint, $9\frac{3}{4}$ in., stainless steel .. .. each



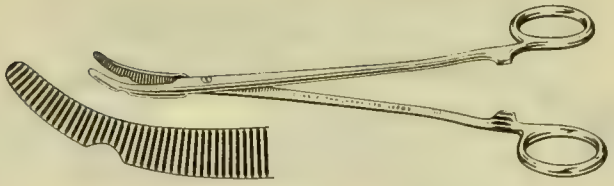
G1098

G1098 ST. PETER'S HOSPITAL PATTERN KIDNEY PEDICLE CLAMP, angled-on-flat, screw joint, $8\frac{1}{2}$ in., stainless steel .. .. each



G1099

G1099 THOMSON-WALKER'S KIDNEY PEDICLE CLAMP, angled-on-flat, screw joint, 8 in., stainless steel .. .. each



G1100

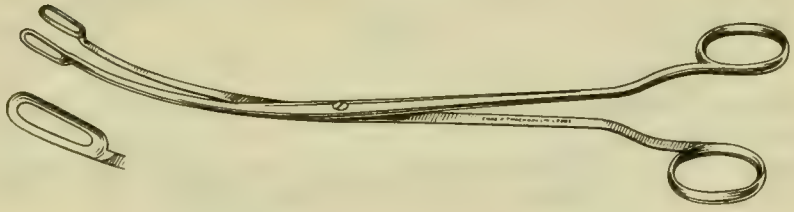
Cat. No.

G1100 WADE'S KIDNEY PEDICLE CLAMP, curved-on-flat, screw joint, 8¾ in., stainless steel .. .. each



G1101

G1101 WINSBURY WHITE'S KIDNEY PEDICLE NEEDLE, stainless steel each



G1102

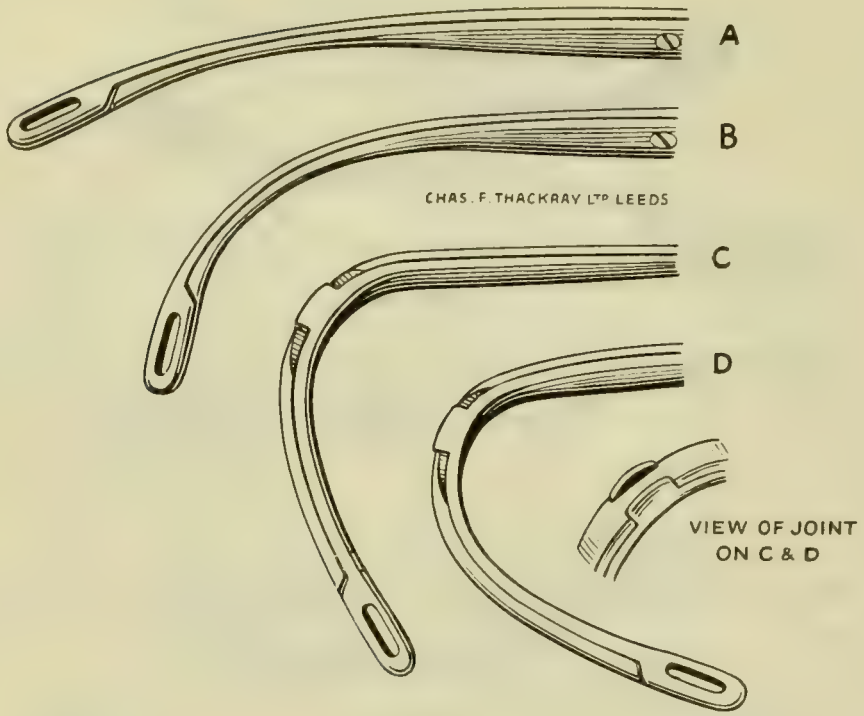
G1102 DESJARDINS' RENAL CALCULI FORCEPS, screw joint, 8¾ in., stainless steel .. .. each

These forceps are also used for gall stones, see page G177.



G1103

G1103 MORSON'S RENAL CALCULI FORCEPS, curved-on-flat, box joint, 8¼ in., stainless steel .. .. each

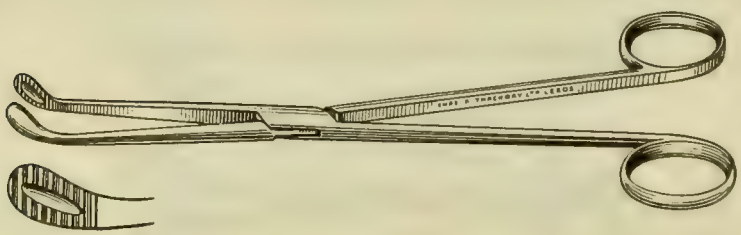


G1104

Cat. No.

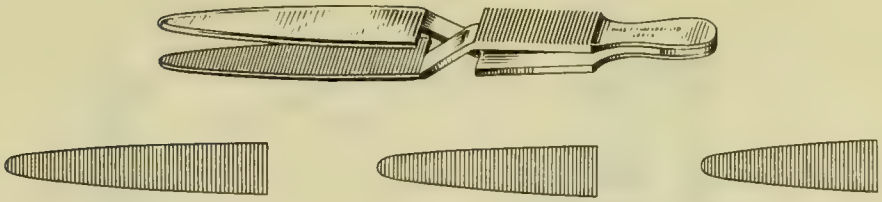
G1104 RANDAL'S RENAL CALCULI FORCEPS, four shapes: A, B, C and D, stainless steel .. .. each

Shapes A and B are fitted with screw joint. C and D have a special joint at the apex of the curve which prevents over-dilatation of the tissues when the jaws are opened.



G1105

G1105 THOMSON-WALKER'S RENAL CALCULI FORCEPS, curved-on-flat, box joint, 8 in., stainless steel .. .. each



G1106

Cat. No.

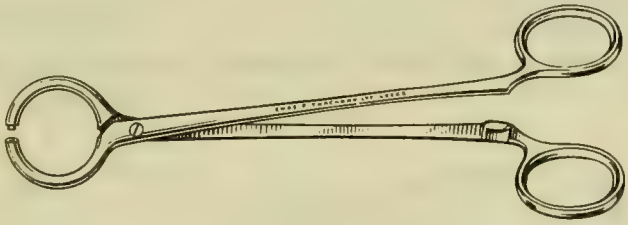
G1106 PYRAH'S RENAL ARTERY FORCEPS, three lengths : 1½ in., 1¼ in. and 1 in., cross-action, stainless steel .. .. each

These forceps are a modification of Dieffenbach's and are used to clamp the renal artery, vein and pedicle, during partial nephrectomy.



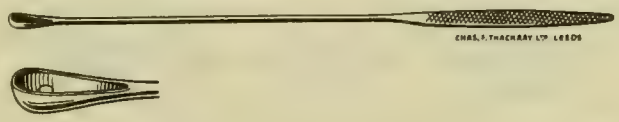
G1107

G1107 FULLERTON'S URETER HOLDING FORCEPS, box joint, 8 in., stainless steel .. .. each



G1108

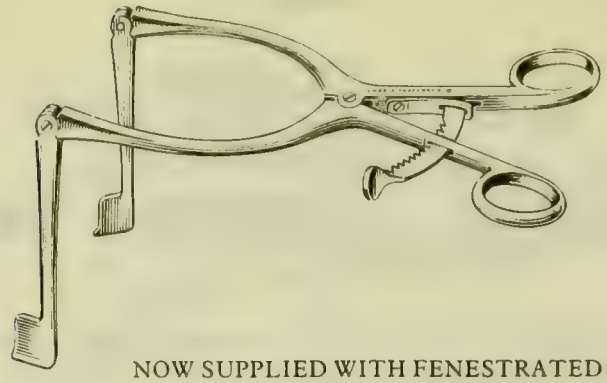
G1108 ALY IBRAHIM'S URETER HOLDING FORCEPS, screw joint, 7 in., stainless steel .. .. each



G1109

G1109 THOMSON-WALKER'S SCOOP, for ureteral stones, malleable, 10 in., silver plated .. .. each

UROLOGICAL INSTRUMENTS



NOW SUPPLIED WITH FENESTRATED BLADES.

188–6038

Cat. No.

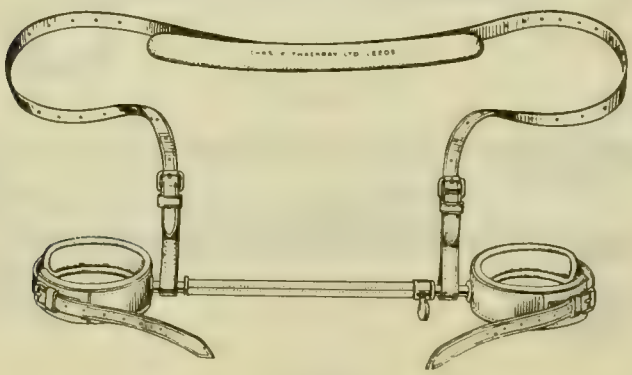
188–6038 MACKELVIE'S PROSTATECTOMY RETRACTOR, self-retaining with hinged arms, stainless steel. Length of hinged arms $4\frac{3}{8}$" (111 mm)

Mr. A. A. MacKelvie, M.D., F.R.C.S.Ed., F.R.C.S.Glasg., Consultant Surgeon and Urologist, Stirling Royal Infirmary and Falkirk Royal Infirmary, writes :—

" *In prostatectomy a clear view of the cavity after removal of the adenoma, is of considerable advantage, and the above retractor was designed for this purpose.*

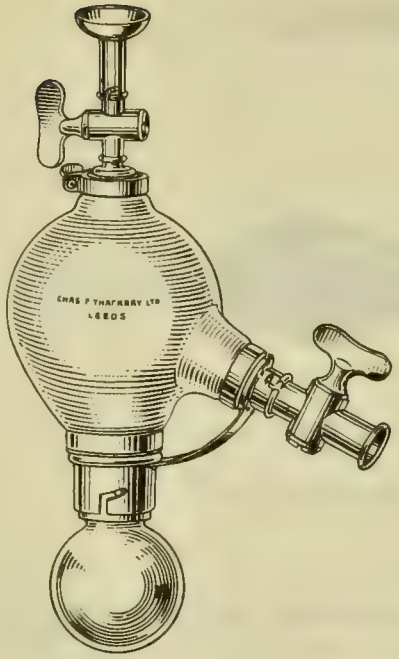
" *It facilitates haemostasis, removal of tags, resection of an adequate posterior bladder neck wedge and any other steps one might consider necessary, in completing the operation.*

" *This instrument can be used in either a standard Millin retropubic operation with a transverse incision in the prostatic capsule, a retropubic operation with a vertical prostatic capsular incision or a transvesical prostatectomy.*"

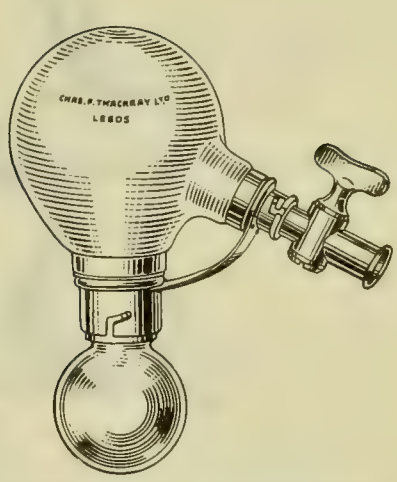


UIIII

UIIII CLOVER'S CRUTCH, leather, with adjustable bar .. .. each



U1112

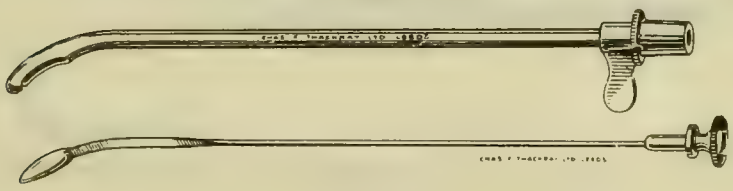


U1113

Cat. No.

U1112 BIGELOW'S EVACUATOR, consisting of: glass receptacle, rubber ball and chromium plated fittings .. .. each

U1113 FREYER'S EVACUATOR, consisting of: glass receptacle, rubber ball and chromium plated fittings .. .. each



U1114

U1114 EVACUATION CATHETER, curved, complete with obturator, sizes: 5 to 18 English Catheter Gauge, chromium plated .. .. each

U1115 Ditto .. straight .. .. each

NOTE.—Catheter Gauges: page U194.



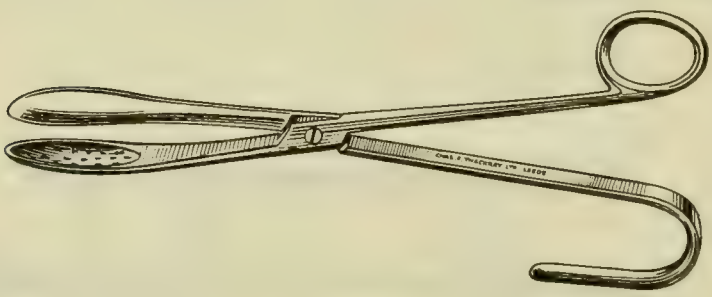
U1116

Cat. No.

U1116 ELLIK'S EVACUATOR, consisting of: glass receptacle, rubber ball and rubber tube .. .. each

U1117 Spare Glass Receptacles .. .. each

The hour glass construction of the receptacle creates a whirling action of the water and resected tissue or crushed stone is trapped in the lower half of the receiver. In use the rubber tube is connected to the metal adapter of resectoscope or evacuation catheter.



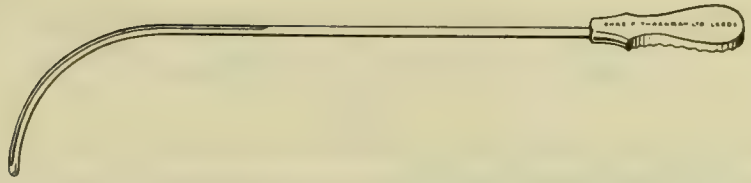
U1119

U1118 LITHOTOMY FORCEPS, straight, screw joint, 7 in., stainless steel each

U1119 Ditto .. 8 in. .. .. each

U1120 Ditto .. curved-on-flat, 7 in. .. .. each

U1121 Ditto .. 8 in. .. .. each



U1122

Cat. No.

U1122 FERGUSSON'S STAFF, male, with grooved shaft, three sizes: 8, 10 and 12 English Catheter Gauge, stainless steel .. .. each



U1123

U1123 BLADDER SOUND, five sizes: 4, 6, 8, 10 and 12 English Catheter Gauge, stainless steel .. .. each



U1124

U1124 CLUTTON'S BLADDER SOUND, with bulbous end, five sizes: 4, 6, 8, 10 and 12 English Catheter Gauge, stainless steel .. .. each



U1125

U1125 FERGUSSON'S BLADDER SOUND, five sizes: 4, 6, 8, 10 and 12 English Catheter Gauge, stainless steel .. .. each

NOTE.—Catheter Gauges: page U194.



U1126

Cat. No.

U1126 MERCIER'S BLADDER SOUND, with bulbous end, five sizes : 4, 6, 8, 10 and 12 English Catheter Gauge, stainless steel .. .. each



U1127

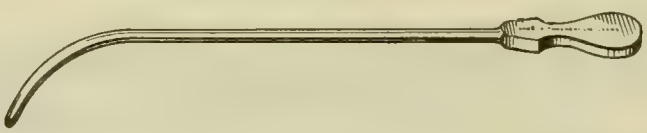
U1127 THOMPSON'S BLADDER SOUND, with flattened end, four sizes : 4, 6, 8 and 10 English Catheter Gauge, stainless steel .. .. each



U1128

U1128 BUCKSTON BROWNE'S BOUGIE, tapered, twelve sizes : 4/7, 5/8, 6/9, 7/10, 8/11, 9/12, 10/13, 11/14, 12/15, 13/16, 14/17 and 15/18 English Catheter Gauge, stainless steel .. .. each

U1129 Ditto .. set of twelve in polished wood case .. .. .. per set



U1130

U1130 CLUTTON'S BOUGIE, tapered, twelve sizes : 6/10, 8/12, 10/14, 12/16, 14/18, 16/20, 18/22, 20/24, 22/26, 24/28, 26/30 and 28/32 French Catheter Gauge, stainless steel .. .. each

U1131 Ditto .. set of twelve in polished wood case .. .. .. per set

*U1132 ASHTON MILLER'S modified CLUTTON'S BOUGIE, for children, ten sizes: 4/8, 6/10, 8/12, 10/14, 12/16, 14/18, 16/20, 18/22, 20/24 and 22/26 French Catheter Gauge, stainless steel .. .. each

U1132A Ditto .. set of ten in polished wood case .. .. .. per set

**Not illustrated*

NOTE.—Catheter Gauges: page U194.

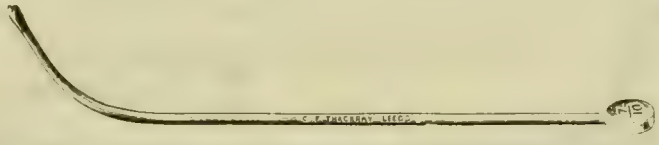


U1133

Cat. No.

U1133 GUYON'S BOUGIE, twelve sizes : 14 to 25 French Catheter Gauge, stainless steel .. .. each

U1134 Ditto .. set of twelve in polished wood case .. .. .. per set



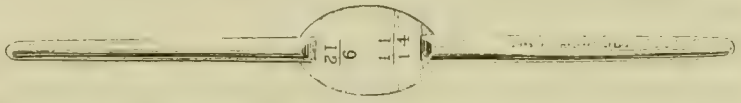
U1135

U1135 LISTER'S BOUGIE, tapered, with bulbous end, twelve sizes : 00/1, 0/2, ½/3, 1/4, 2/5, 3/6, 4/7, 5/8, 6/9, 7/10, 8/11 and 9/12 English Catheter Gauge, stainless steel, each

U1136 Ditto .. six sizes : 10/13, 11/14, 12/15, 13/16, 14/17 and 15/18 .. each

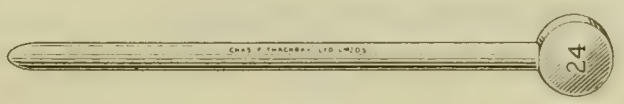
U1137 Ditto .. set of twelve sizes : 0/2 to 10/13 in polished wood case .. per set

U1138 Ditto .. set of twelve sizes : 2/5 to 13/16 in polished wood case .. per set



U1139

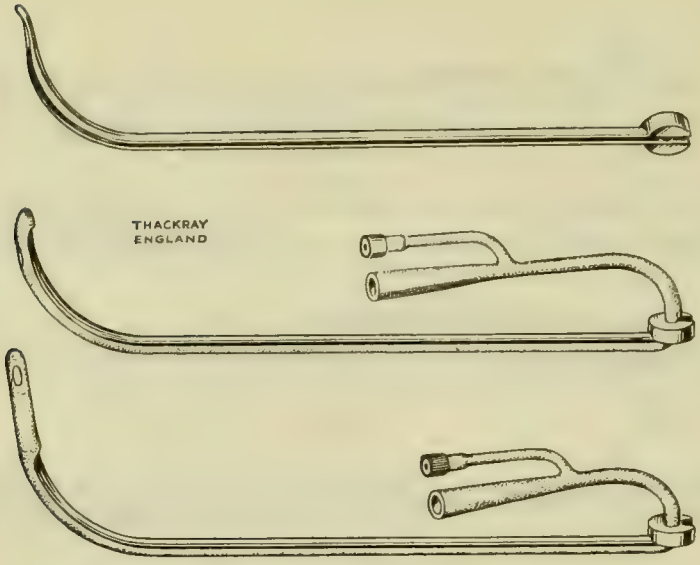
U1139 CANNY RYALL'S BOUGIE, metal, tapered, double-ended, five sizes: 1/4 by 3/6, 5/8 by 7/10, 9/12 by 11/14, 13/16 by 15/18 and 17/20 by 19/22 English Catheter Gauge, stainless steel .. .. each



U1140

U1140 WYNDHAM POWELL'S BOUGIE, anterior urethral, eighteen sizes : 15 to 32 French Catheter Gauge, stainless steel .. .. each

NOTE.—Catheter Gauges: page U194.



Reg. Design No.917583

194-6482

Cat. No. 194–6482 'MARYFIELD' PATTERN FOLEY'S CATHETER INTRODUCER, curved, large size, stainless steel, for 24 or 26 F.C.C. catheters.

Cat. No. 194–6483 'MARYFIELD' PATTERN FOLEY'S CATHETER INTRODUCER, curved, medium size, for 16 or 18 F.C.G. catheters.

Mr Walter Campbell, V.R.D., Ch.M., F.R.C.S.(Eng.), F.R.C.S.(Ed.), Consultant Surgeon at Maryfield Hospital, Dundee, and Mr Gavin Douglas, M.B., Ch.B., write:

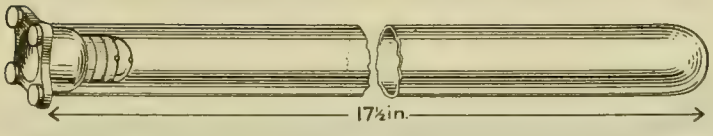
'For several years now we have been using a Foley's catheter introducer which we designed to allow a delicate "no touch" technique in the passage of this useful catheter.

'Essentially the introducer is a metal tube, shaped like a bougie whose convex wall has been removed. The tip is offset and pointed for insertion in the terminal catheter aperture. The catheter lies in the deeply grooved convexity of the instrument and is fixed in slight tension at the promixal end by some form of clamp. The whole thing is like a rubber tyre in a wheel rim. The catheter can be mounted without being touched, and if only the proximal end of the carrier is held, it and the catheter can be inserted into the bladder without either being soiled by the operator. Insertion is well controlled and usually easy. The bag of the catheter is then inflated and the carrier gently withdrawn leaving the catheter in situ.

'Preferably, and generally quite satisfactorily, the tip of the carrier can be inserted into a small hole made in the side of the catheter just proximal to the bag. When mounted, this produces a combination whose distal part is flexible. This has the advantages of good control and also the delicacy and flexibility of a soft rubber catheter.

'The instrument is equally suitable for males and females and we believe should always be used when passing these catheters, as by doing so there is less risk of injury and sepsis.'

Vide "Lancet", January 30th 1965, page 253.



U1142

Cat. No.

U1142 HOLDER, for Catheters and Bougies, glass, with rubber bung and glass formalin container, 17½ in. long .. .. each

U1143 Ditto .. non-inflammable, unbreakable, transparent plastic .. .. each

U1144 Ditto .. metal, chromium plated .. .. each

U1145 FORMALIN TABLETS, for above .. .. per 50

NOTE.—Spare bungs, Formalin containers and tubes available on request.



U1146

U1146 CATHETER, CYLINDRICAL, black, gum-elastic, sizes: 1 to 18 English Catheter Gauge .. .. each

U1147 Ditto .. Boilable, white, sizes: 1 to 18 English Catheter Gauge .. each

U1147A Ditto .. Greytex Terylene, sizes: 1 to 18 English Catheter Gauge .. each



U1148

U1148 CATHETER, OLIVARY TIP, black, gum-elastic, sizes: 1 to 18 English Catheter Gauge .. .. each

U1149 Ditto .. Boilable, white, sizes: 1 to 18 English Catheter Gauge .. each

U1149A Ditto .. Greytex Terylene, sizes: 1 to 18 English Catheter Gauge .. each



U1150

U1150 CATHETER, COUDÉE, cylindrical, black, gum-elastic, sizes: 1 to 18 English Catheter Gauge .. .. each

U1151 Ditto .. Boilable, white, sizes: 1 to 18 English Catheter Gauge .. each

U1151A Ditto .. Greytex Terylene, sizes: 1 to 18 English Catheter Gauge .. each

NOTE.—Catheter Gauges: page U194.



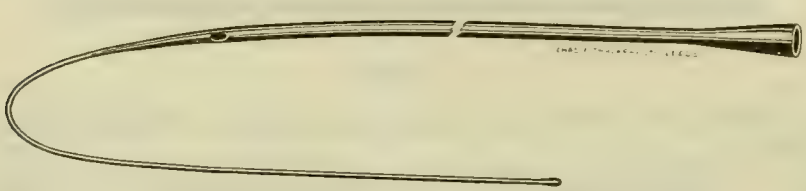
U1152

Cat. No.

U1152 CATHETER, BI-COUDÉE, cylindrical, black, gum-elastic, sizes : 1 to 18 English Catheter Gauge .. .. each

U1153 Ditto .. Boilable, white, sizes : 1 to 18 English Catheter Gauge .. each

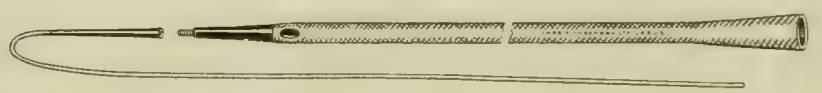
U1153A Ditto .. Greytex Terylene, sizes: 1 to 18 English Catheter Gauge .. each



U1154

U1154 HARRISON'S WHIP CATHETER, black, gum-elastic, sizes : 1 to 12 English Catheter Gauge .. .. each

U1154A Ditto .. Greytex Terylene, sizes: 1 to 12 English Catheter Gauge .. each



U1155

U1155 CANNY RYALL'S WHIP CATHETER, woven nylon, gum-elastic, with screw-on fillet, sizes : 4 to 12 English Catheter Gauge .. .. .. each

U1155A Ditto .. Greytex Terylene, sizes: 4 to 12 English Catheter Gauge .. each

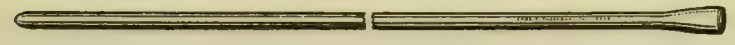
U1156 Spare Catheters for U1155 .. .. each

U1156A Spare Catheters for U1155A .. .. each

U1157 Spare Fillets for U1155 .. .. each

U1157A Spare Fillets for U1155A .. .. each

NOTE.—Catheter Gauges: page U194.



U1158

Cat. No.

U1158 BOUGIE, cylindrical, black, gum-elastic, sizes : 1 to 18 English Catheter Gauge, each

U1159 Ditto .. Boilable, white, sizes : 1 to 18 English Catheter Gauge .. each

U1159A Ditto .. Greytex Terylene, sizes: 1 to 18 English Catheter Gauge .. each

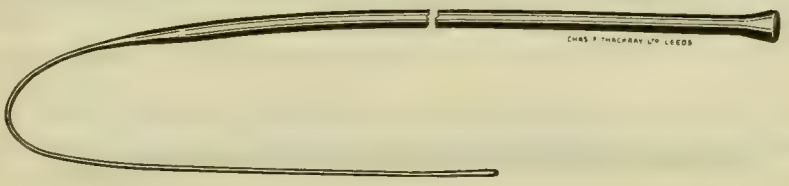


U1160

U1160 BOUGIE, OLIVARY TIP, black, gum-elastic, sizes : 1 to 18 English Catheter Gauge .. .. each

U1161 Ditto .. Boilable, white, sizes : 1 to 18 English Catheter Gauge .. each

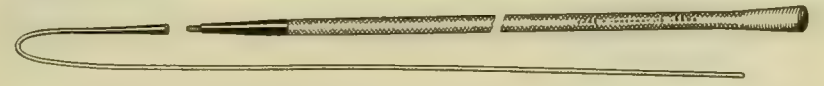
U1161A Ditto .. Greytex Terylene, sizes: 1 to 18 English Catheter Gauge .. each



U1162

U1162 HARRISON'S WHIP BOUGIE, black, gum-elastic, sizes : 4 to 12 English Catheter Gauge .. .. each

U1162A Ditto .. Greytex Terylene, sizes: 1 to 12 English Catheter Gauge .. each



U1163

U1163 CANNY RYALL'S WHIP BOUGIE, woven Nylon, gum-elastic, with screw-on fillets, sizes : 4 to 12 English Catheter Gauge .. .. .. each

U1163A Ditto .. Greytex Terylene, sizes: 4 to 12 English Catheter Gauge .. each

U1164 Spare Bougies for U1163 .. .. each

U1164A Spare Bougies for U1163A .. .. each

U1165 Spare Fillets for U1163 .. .. each

U1165A Spare Fillets for U1163A .. .. each

NOTE.—Catheter Gauges: page U194.



U1166

Cat. No.

U1166 NELATON'S CATHETER, cylindrical, with aseptic eye, soft rubber, sizes : 3 to 18 English Catheter Gauge .. .. each

NOTE.—Sizes: 19–28 *made to order.*

U1166A Ditto .. plastic, sizes: 6 to 36 French Catheter Gauge, even sizes only. Clear and orange X-ray opaque. Unsterile .. .. each

U1166B Ditto .. clear plastic, sizes: 3 to 18 English Catheter Gauge. Sterile dozen

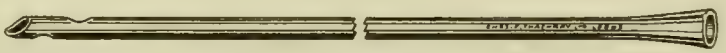


U1167

U1167 HARRIS' CATHETER, cylindrical, with two ordinary eyes, soft rubber, sizes : 3 to 28 English Catheter Gauge .. .. each

U1167A Ditto .. plastic, sizes: 10 to 36 French Catheter Gauge, even sizes only. Clear and orange X-ray opaque. Unsterile .. .. each

U1167B Ditto .. clear plastic, sizes: 4 to 18 English Catheter Gauge. Sterile dozen



U1168

U1168 WHISTLE TIP CATHETER, cylindrical, with oblique terminal opening and two ordinary eyes, soft rubber, sizes : 3 to 28 English Catheter Gauge .. each

U1168A Ditto .. plastic, sizes: 10 to 36 French Catheter Gauge, even sizes only. Clear and orange X-ray opaque. Unsterile .. .. each

U1168B Ditto .. clear plastic, sizes: 4 to 18 English Catheter Gauge. Sterile dozen



U1169

U1169 TIEMANN'S OR MARSHALL'S CATHETER, tapered curved tip, aseptic eye, soft rubber, sizes : 7 to 12 English Catheter Gauge .. .. .. each

U1169A Ditto .. orange plastic, sizes: 12 to 26 French Catheter Gauge, even sizes only. Unsterile .. .. each

NOTE.—Catheter Gauges: page U194.



U1170

Cat. No.

U1170 FOLEY'S SELF-RETAINING CATHETER, with 5 c.c. capacity bag and two eyes, latex rubber, sizes: 10 to 30 French Catheter Gauge. Unsterile .. each

U1170A Ditto .. sterile .. .. each



U1171

U1171 FOLEY'S HÆMOSTATIC CATHETER with 30 c.c. capacity bag and two eyes, latex rubber, sizes: 14 to 30 French Catheter Gauge. Unsterile .. each

U1171A Ditto .. sterile .. .. each



U1172

U1172 FOLEY'S HÆMOSTATIC CATHETER with 100 c.c. capacity bag and two eyes, latex rubber, sizes : 20, 22, 24 and 26 French Catheter Gauge .. each

U1173 Ditto .. with 200 c.c. capacity bag .. .. each

NOTE.—Special sizes of bags and gauges of Foley's catheters can be made to order; *Catheter Gauges: page* U194.

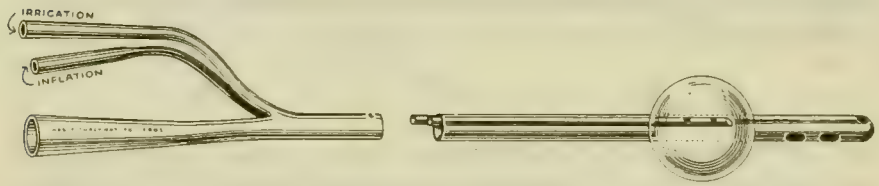


U1174

Cat. No.

U1174 FOLEY-ALCOCK'S IRRIGATING CATHETER, with 30 c.c. capacity bag, whistle tip and two eyes, latex rubber, sizes: 16 to 30 French Catheter Gauge.
Unsterile .. .. each

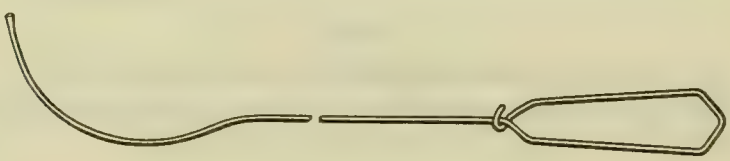
U1174A Ditto .. sterile .. .. each



U1175

U1175 FOLEY-OWEN'S IRRIGATING HÆMOSTATIC CATHETER, with 30 c.c. capacity bag and two eyes, latex rubber, sizes: 16 to 30 French Catheter Gauge.
Unsterile .. .. each

U1175A Ditto .. sterile .. .. each



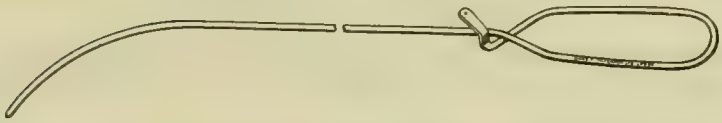
U1176

U1176 INTRODUCER, for Foley's Catheters, stainless steel .. .. each

NOTE.—Special sizes of bags and gauges of Foley's catheters can be made to order; Catheter Gauges: page U194.



U1177



U1178

Cat. No.

U1177 DOWSE'S CATHETER, self-retaining, with four-winged tip, soft rubber, sizes: 3–18 English Catheter Gauge .. .. each

U1178 INTRODUCER for above, stainless steel .. .. each



U1179

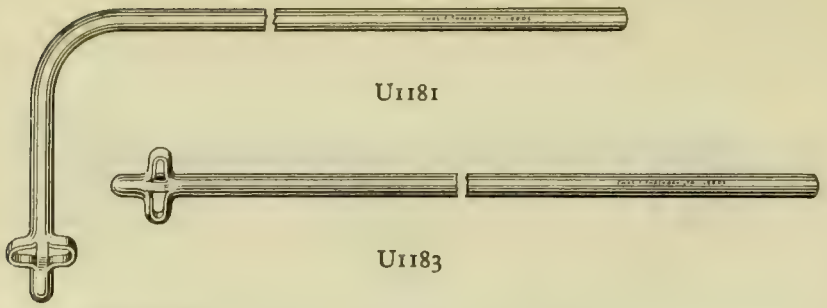


U1180

U1179 WINSBURY-WHITE'S CATHETER, self-retaining, soft rubber, sizes: 28, 30, 32 and 34 French Catheter Gauge .. .. each

U1180 INTRODUCER for above, stainless steel .. .. each

NOTE.—Catheter Gauges: page U194.



U1181

U1183

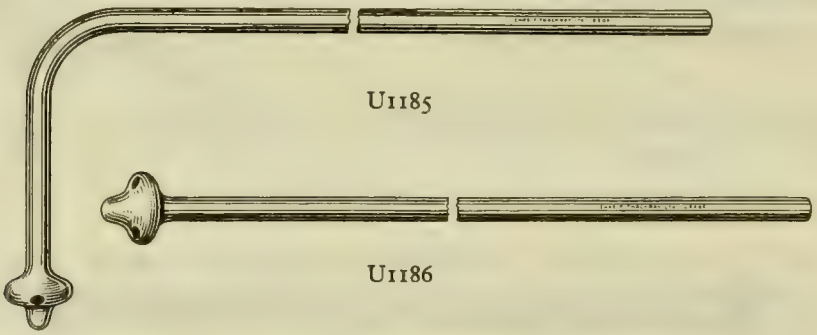
Cat. No.

U1181 MALECOT'S CATHETER, self-retaining, angled, with two-winged tip, soft rubber, sizes: 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32 and 34 French Catheter Gauge .. .. each

*U1182 Ditto .. with four-winged tip: 16–34 .. .. each

U1183 MALECOT'S CATHETER, self-retaining, straight, with two-winged tip, soft rubber sizes: 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32 and 34 French Catheter Gauge .. .. each

*U1184 Ditto .. with four-winged tip: 16–34 .. .. each

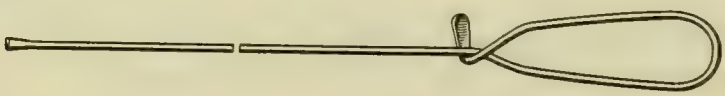


U1185

U1186

U1185 PEZZER'S CATHETER, self-retaining, angled, soft rubber, sizes: 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38 and 40 French Catheter Gauge .. each

U1186 PEZZER'S CATHETER, self-retaining, straight, soft rubber, sizes: 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38 and 40 French Catheter Gauge .. .. each

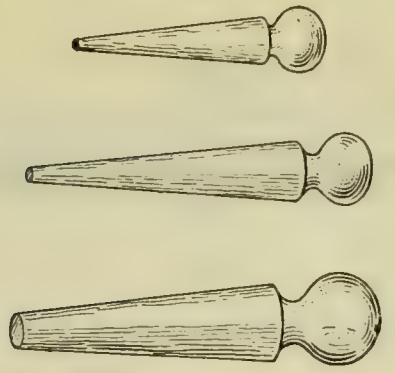


U1187

U1187 INTRODUCER for Malecot's and Pezzer's Catheters, stainless steel, two sizes: large and small .. .. each

**Not illustrated.*

NOTE.—Catheter Gauges: page U194.

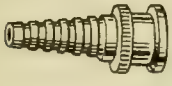


U1188

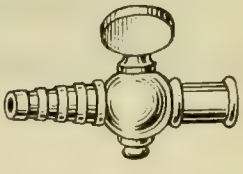
Cat. No.

U1188 CATHETER SPIGOT, boxwood, three sizes: small, medium and large each

U1188A CATHETER SPIGOT, plastic, one size only. Sterile .. .. .. each



U1189



U1191

U1189 INFLATION MOUNT, for Foley's Catheters, Record fitting, chromium plated .. .. each

U1190 Ditto .. Luer fitting .. .. each

U1191 INFLATION STOPCOCK, for Foley's Catheters, Record fitting, chromium plated .. .. each

U1192 Ditto .. Luer fitting .. .. each

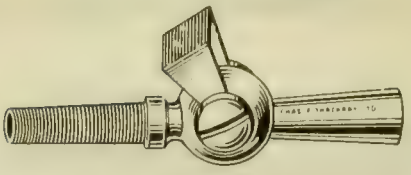


U1193

*U1193 CATHETER MOUNT, threaded for firm fit, Record fitting, chromium plated, each

U1194 Ditto .. Luer fitting .. .. each

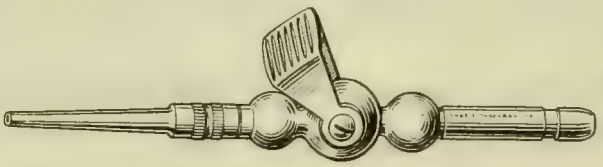
**This is now being used extensively as an adaptor for a gastric aspiration tube in order that a Record or a Luer syringe can be fitted to the end to aspirate the stomach contents. Most people call it Tubbs' adaptor or catheter mount.*



U1195

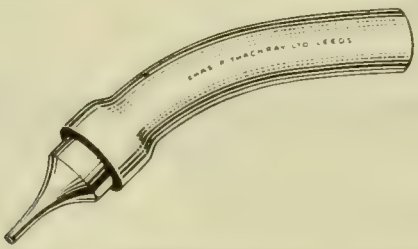
Cat. No.

U1195 MARION'S CATHETER STOPCOCK, chromium plated .. .. each



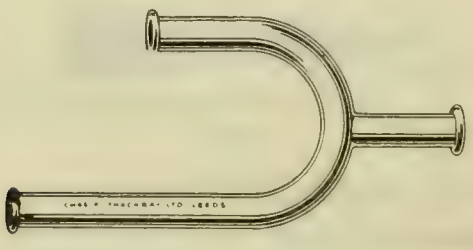
U1196

U1196 CANNY RYALL'S CATHETER STOPCOCK, chromium plated .. each



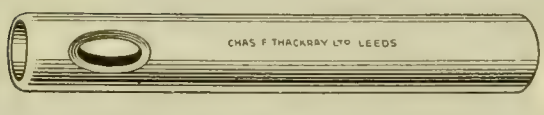
U1197

U1197 CORNER'S CATHETER WASHER, with chromium plated mount for funnel end of catheter and rubber tube for attaching to water tap .. .. each



U1198

U1198 KIDD'S U-TUBE, for measuring intravesical pressure, chromium plated, each



U1199

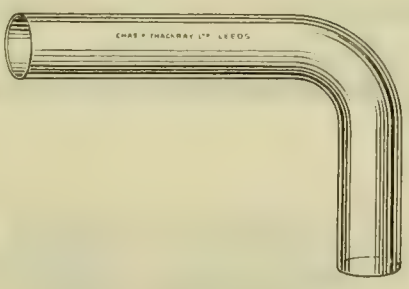
Cat. No.

U1199 FREYER'S DRAINAGE TUBE, suprapubic, rubber, sizes: 12, 14, 16, 18, 20, 22, 24, 26, 28 and 30 mm. diameter .. .. each



U1200

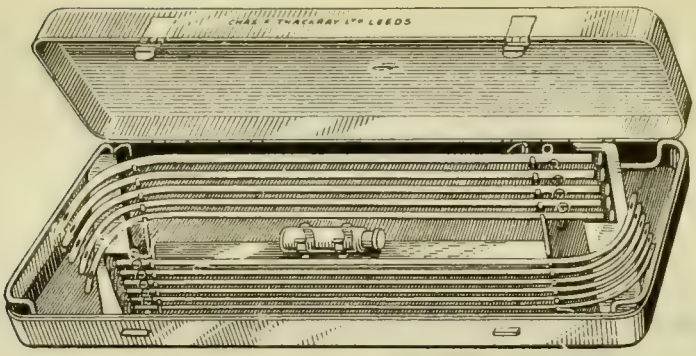
U1200 MARION'S DRAINAGE TUBE, suprapubic, rubber, sizes: 14, 16, 18, 20, 22, 24, 26 and 28 mm. diameter .. .. each



U1201

U1201 ANGLED PIECES, glass, to fit Freyer's and Marion's Tubes .. .. each

When ordering please state size of rubber tube.



U1202

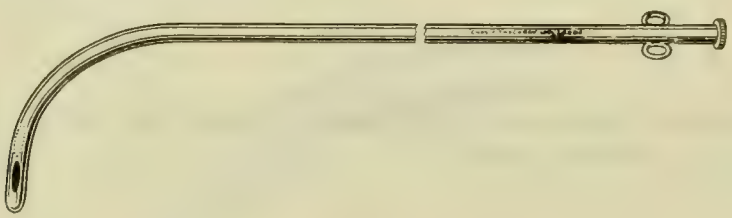
Cat. No.

U1202 CATHETER SET, consisting of: twelve silver plated cylindrical catheters (Fig. U1206), sizes 1 to 12 English Catheter Gauge, including one prostatic (Fig. U1207, size 10); and glass bottle for lubricant, in chromium plated case with lift-out rack .. .. per set

U1203 Ditto .. in polished wood case .. .. per set

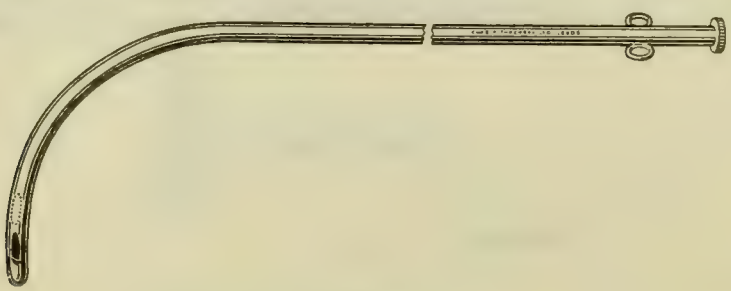
U1204 Ditto .. set of six, sizes : 2, 4, 6, 8, 10 and 12, in nickel plated case with lift-out rack .. .. per set

U1205 Ditto .. in polished wood case .. .. per set



U1206

U1206 CATHETER, cylindrical, silver plated, sizes : 1 to 15 English Catheter Gauge, each



U1207

U1207 PROSTATIC CATHETER, cylindrical, silver plated, sizes: 6 to 15 English Catheter Gauge .. .. each

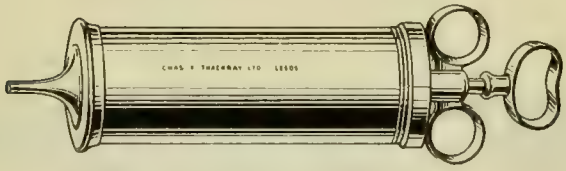
NOTE.—Catheter Gauges: page U194.



U1208

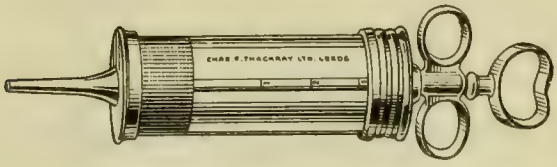
Cat. No.

U1208 BLADDER SYRINGE, all metal, 4 oz. capacity, with washerless detachable nozzle, chromium plated .. .. each



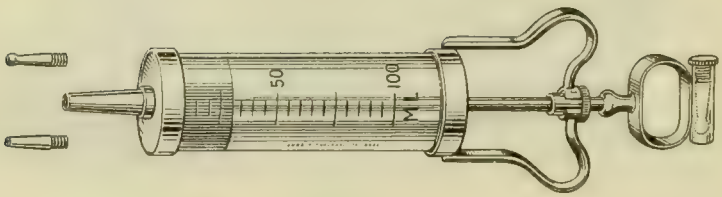
U1209

U1209 BARRINGTON'S BLADDER SYRINGE, all metal, 200 c.c. capacity, graduated piston rod, chromium plated .. .. each



U1210

U1210 RICHES' BLADDER SYRINGE, ward model, 4 oz. capacity, graduated piston rod, chromium plated, with glass barrel .. .. each



U1211

Cat. No.

U1211 JANET'S BLADDER SYRINGE, 100 c.c. capacity, graduated barrel, two detachable nozzles (one housed in tube fixed to piston ring), chromium plated, with glass barrel .. .. each



U1212

U1212 THOMSON-WALKER'S BLADDER SYRINGE, all metal, 8 oz. capacity, with bayonet fitting nozzle and graduated piston rod, chromium plated .. each



U1213

U1213 WARDILL'S BLADDER SYRINGE, all glass, 2 oz. capacity .. each

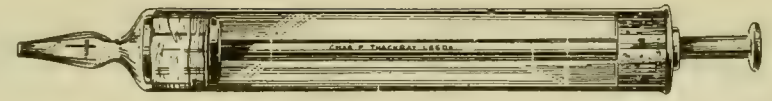


U1214

Cat. No.

U1214 BLADDER OR URETHRAL SYRINGE, 2 oz. capacity, consisting of: glass barrel and rubber bulb .. .. each

U1215 Ditto .. 4 oz. capacity .. .. each



U1221

U1219 URETHRAL SYRINGE, all glass, ½ oz. capacity, with cotton plunger each

U1220 Ditto .. 1 oz. capacity .. .. each

U1221 Ditto .. 2 oz. capacity .. .. each

U1222 Ditto .. 3 oz. capacity .. .. each

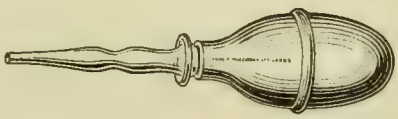
U1223 Ditto .. 4 oz. capacity .. .. each



U1224

Cat. No.

U1224 URETHRAL SYRINGE, rubber, 2 oz. capacity .. .. .. each



U1225

U1225 RICHES' URETHRAL SYRINGE, 2 oz. capacity, consisting of: glass nozzle and rubber bulb .. .. each

For use with an indwelling catheter: the tapered nozzle is designed to give an airtight fit to the catheter funnel end.

Vide "Lancet", April 8th, 1950. Page 671.



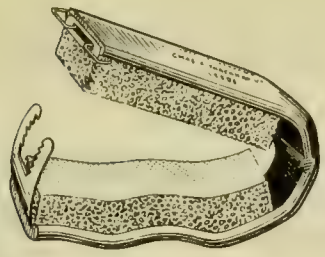
U1226

U1226 CANNY RYALL'S URETHRAL SYRINGE, ½ oz. capacity, consisting of: glass barrel and rubber bulb .. .. each

U1227 Ditto .. 1 oz. capacity .. .. each

U1228 Ditto .. 1½ oz. capacity .. .. each

U1229 Ditto .. 2 oz. capacity .. .. each

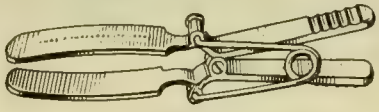


U1230

Cat. No.

U1230 CUNNINGHAM'S PENILE CLAMP, for incontinence of urine, as used by Millin, metal frame with sponge rubber pads and spring ratchet, four sizes: large and medium (for adults), small (for children), and extra small (for infants) .. each

The lightweight metal frame can be shaped by hand to fit the size of penis and the sponge rubber pads allow firm pressure without impeding the circulation.



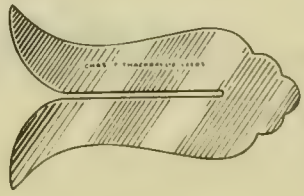
U1232

U1232 CANNY RYALL'S PENILE CLAMP, spring movement, stainless steel .. each



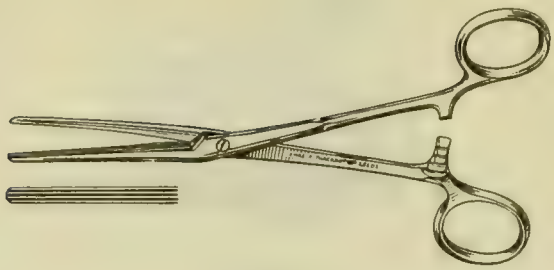
U1233

U1233 THOMSON-WALKER'S PENILE CLAMP, cross-action, stainless steel, each



U1234

U1234 CIRCUMCISION SHIELD, stainless steel .. .. .. each



U1235

Cat. No.

U1235 PHYMOSIS FORCEPS, fine jaws, screw joint, **6 in.**, stainless steel .. each



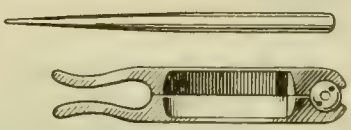
U1236

U1236 RICORD'S PHYMOSIS FORCEPS, with fenestrated jaws, screw joint, 6½ in., stainless steel .. .. each



U1237

U1239



U1238

U1237 EGYPTIAN PATTERN PHYMOSIS CLAMP, adults' size, with conical probe, stainless steel .. .. each

U1238 Ditto .. children's size .. .. each

U1239 SCREWDRIVER for either of the above, stainless steel .. .. each

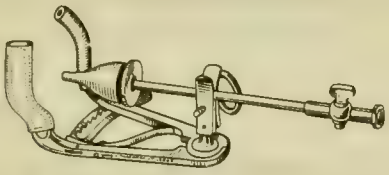


U1240

Cat. No.

U1240 JANET'S URETHRAL NOZZLE, glass .. .. each

U1241 Ditto .. metal, nickel plated .. .. each



Cannula now 9 in. long

U1242

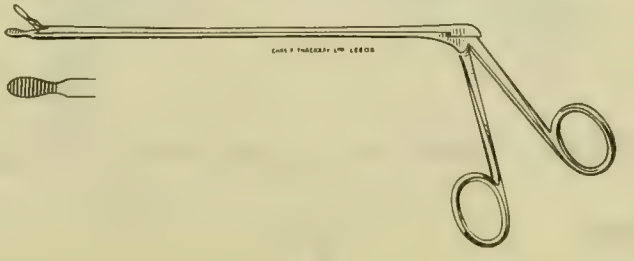
†U1242 KNUTSSON'S URETHROGRAPHY CLAMP .. .. .. each

Provides the most satisfactory means of injecting the male urethra with radio-opaque media whilst allowing the operator to stand at a distance from the X-rays.

The clamp is light, watertight, comfortable for the patient, easily applied and removed in an instant by the release catch.

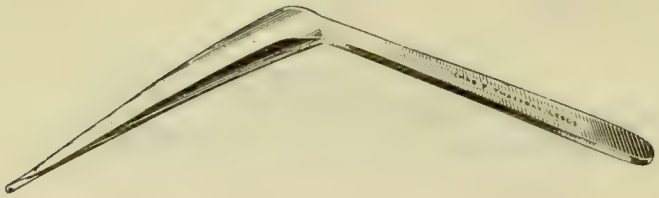
†*Latest improved pattern, as used at Bradford Royal Infirmary, made of aluminium and stainless steel, Luer-Lock fitting on cannula. Umbradil* (Regd.) *Viscous "U" (Astrapharm Ltd.) is the recommended contrast medium.*

Vide "Radiography," December 1957, *Vol. XXIII, No.* 276, *pp.* 316-324.



U1243

U1243 URETHRAL FORCEPS, with 8 in. long shaft, stainless steel .. .. each



U1244

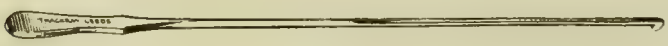
Cat. No.

U1244 TEALE'S GORGET, for Wheelhouse's Operation, stainless steel .. each



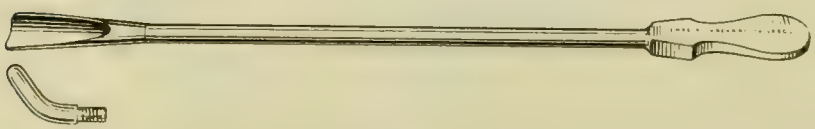
U1245

U1245 PERINEAL PROBE-DIRECTOR, for Wheelhouse's Operation, 6 in., stainless steel .. .. each



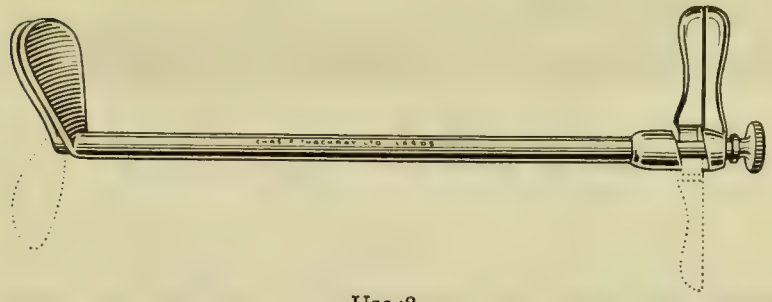
U1246

U1246 WHEELHOUSE'S STAFF, with grooved shaft, stainless steel .. .. each



U1247

U1247 WINSBURY-WHITE'S URETHRAL GUIDE, with two interchangeable ends, chromium plated .. .. each

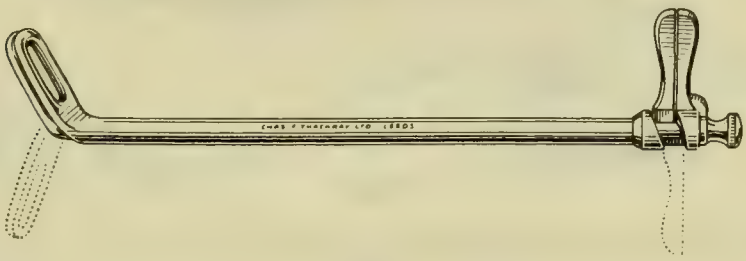


U1248

Cat. No.

U1248 WINSBURY-WHITE'S BLADDER NECK SPREADER, chromium plated, each

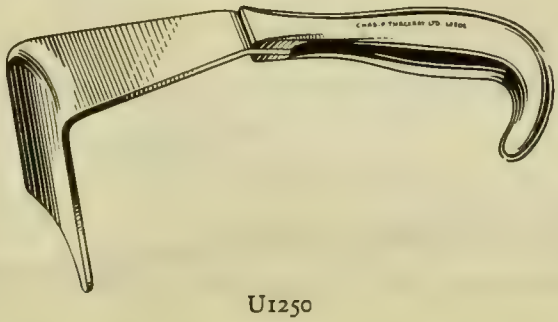
For use in perineal prostatectomy.



U1249

U1249 YOUNG'S PROSTATIC TRACTOR, stainless steel .. .. each

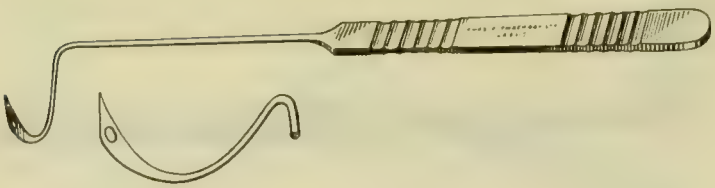
For use in perineal prostatectomy.



U1250

U1250 PROUST'S RETRACTOR, with chromium plated shaped solid handle and stainless steel blade 2½ in. deep by 1¾ in. wide .. .. .. each

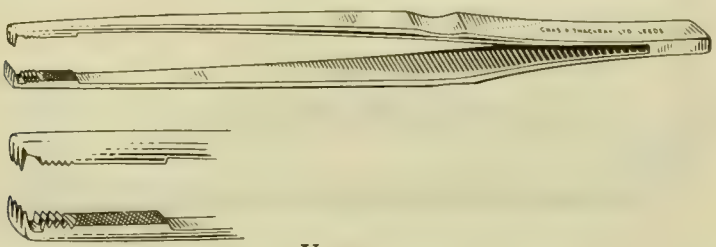
For retracting the rectum in perineal prostatectomy.



U1251

Cat. No.

U1251 THOMSON-WALKER'S BLADDER NEEDLE, malleable shaft, stainless steel .. .. each



U1252

U1252 MILES' DISSECTING FORCEPS, with three into four teeth, 10 in., stainless steel .. .. each



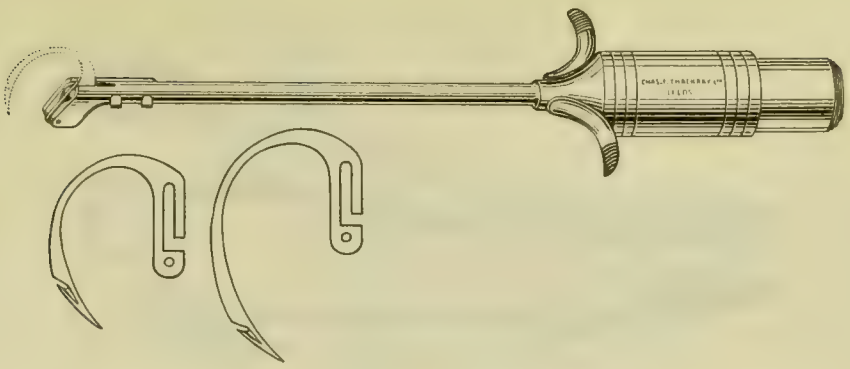
U1253

U1253 MILLIN'S DISSECTING FORCEPS, with three into four teeth, 9 in., stainless steel .. .. each



U1254

U1254 THOMSON-WALKER'S DISSECTING FORCEPS, one into two teeth, 7½ in., stainless steel .. .. each



U1255

Cat. No.

U1255 MILLIN'S BOOMERANG NEEDLE HOLDER, chromium plated, complete with one of each medium and large stainless steel needles .. .. each

U1256 Spare Needles, two sizes : medium and large, stainless steel .. .. each

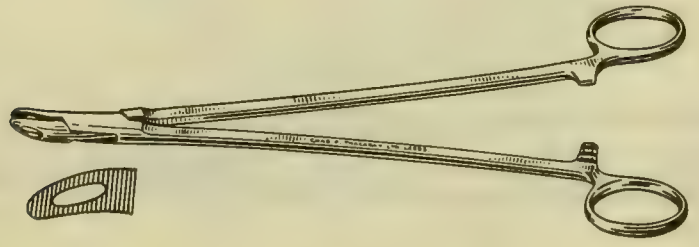


U1257

U1257 RICHES' BOOMERANG NEEDLE GUIDE, 11½ in., stainless steel, chromium plated handle .. .. each

The curve of the guide conforms to that of the boomerang needle. The inner surface has three grooves : the lateral ones for the needle and the centre one to allow for section of the pedicle. It is used mainly to pass beneath the inferior vesical vessels in total cystectomy, but has other obvious uses.

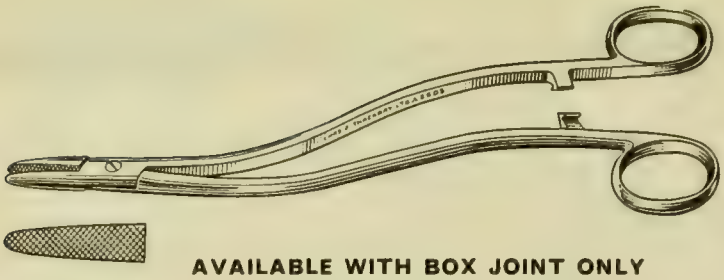
Vide the "Lancet", Jan. 10th, 1948. Page 68.



U1258

U1258 SWIFT JOLY'S NEEDLE HOLDER, with curved fenestrated jaws, box joint, 8¼ in., stainless steel .. .. each

U1259 Ditto .. 6½ in. (Metzenbaum's) .. .. each



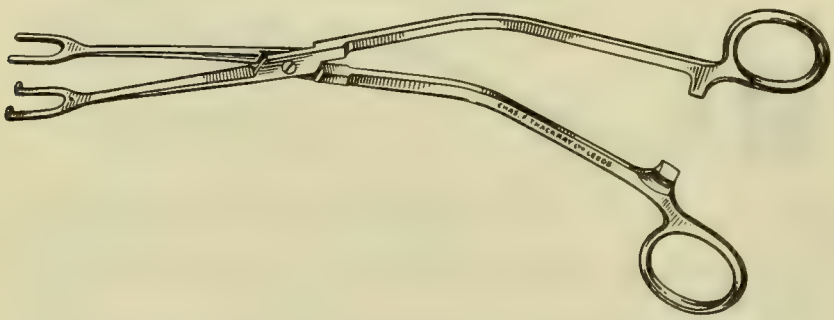
AVAILABLE WITH BOX JOINT ONLY

U1260

Cat. No.

U1260 THOMSON-WALKER'S NEEDLE HOLDER, screw joint, 8 in., stainless steel .. .. each

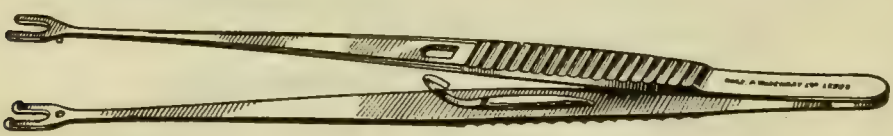
U1261 Ditto .. box joint .. .. each



U1262

U1262 MILLIN'S modified YOUNG'S LIGATURE HOLDING FORCEPS, screw joint, 9½ in., stainless steel .. .. each

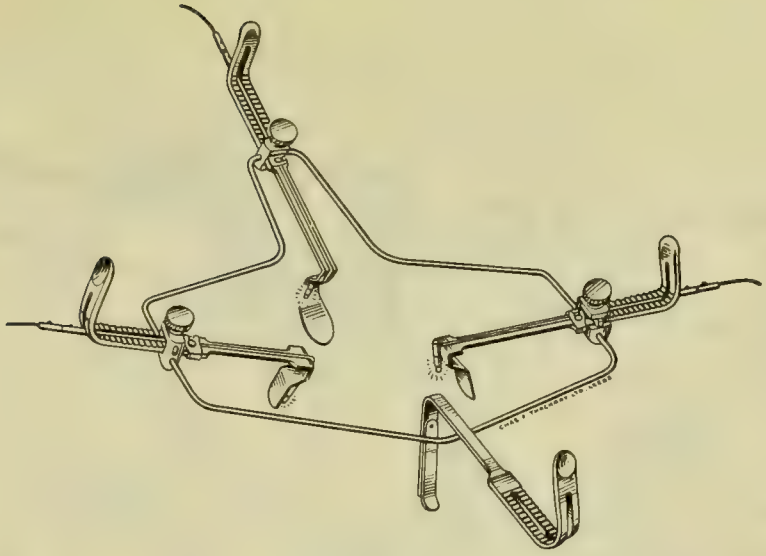
U1263 Ditto .. box joint .. .. each



U1264

U1264 RICHES' modified YOUNG'S LIGATURE HOLDING FORCEPS, 10 in., stainless steel .. .. each

Vide the "Lancet", Jan. 10th, 1948. Page 68.

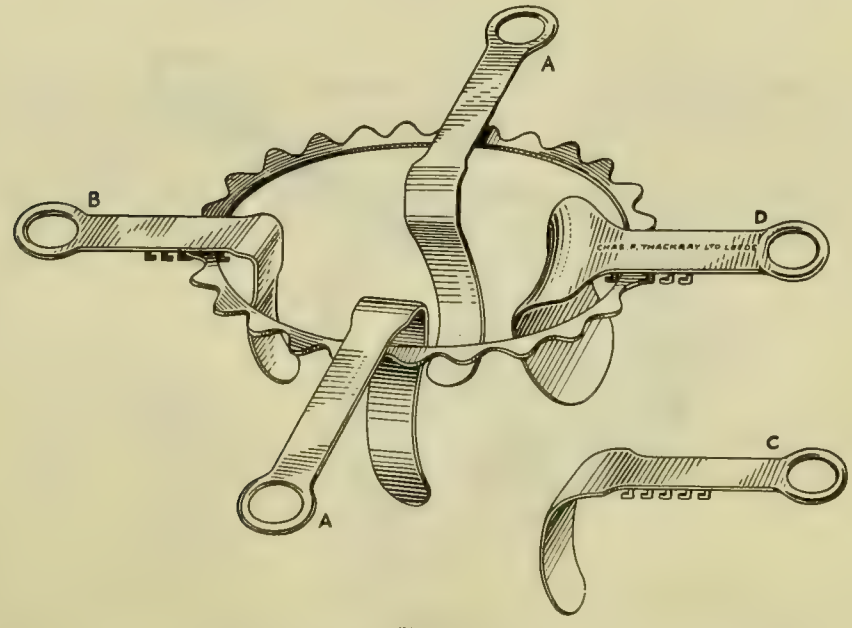


U1265

Cat. No.

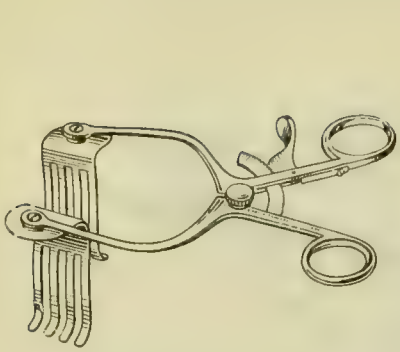
U1265 HARRIS' BLADDER RETRACTOR, consisting of: frame to take-apart, stainless steel; three retractors (two 1 in. and one 1¼ in. wide), stainless steel; one retractor ¾ in. wide fitted with sliding extension blade, stainless steel; three chromium plated clamps and three light carriers; complete with rubber covered cables and spare lamp .. .. each

U1266 Spare Lamps for above, 3·5 volts .. .. each

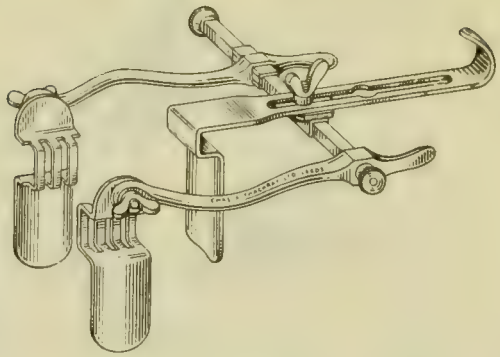


U1267

U1267 SWIFT JOLY-DENIS BROWNE'S BLADDER RETRACTOR, consisting of: sprocket frame, two retractors (A), one retractor (B), one retractor (C) and two retractors (D), stainless steel .. .. each



U1268

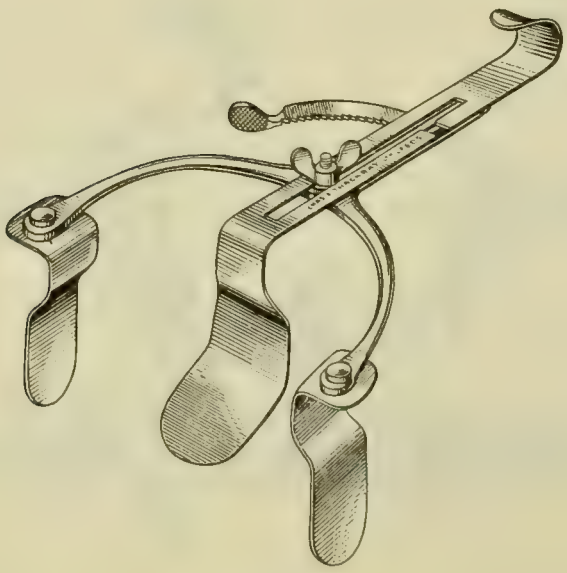


U1269

Cat. No.

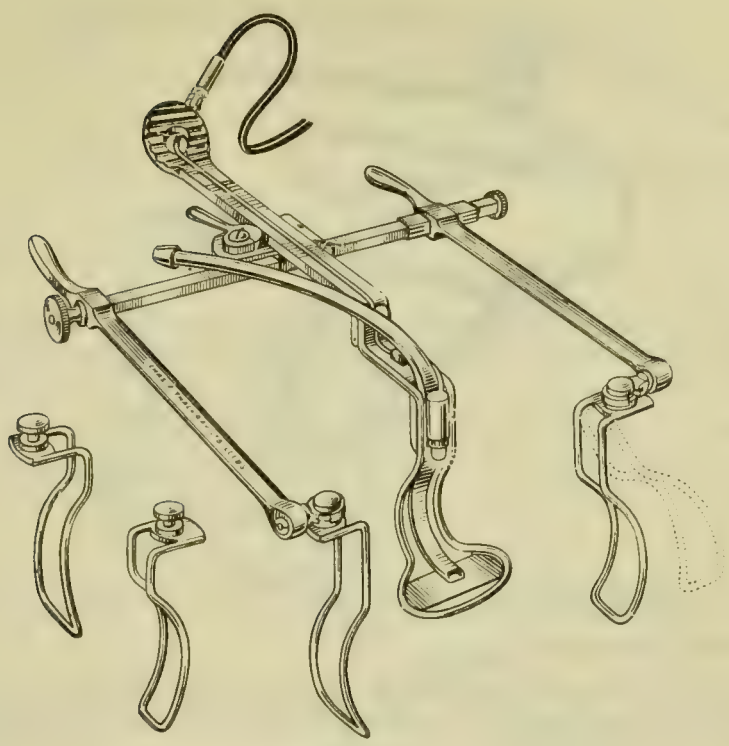
U1268 WINSBURY-WHITE'S PERINEAL RETRACTOR, with two lateral swivel blades and cam ratchet, stainless steel .. .. each

U1269 JUDD-MASSON'S BLADDER RETRACTOR, with two lateral swivel blades and one centre blade, stainless steel .. .. each



U1270

U1270 MILLIN'S BLADDER RETRACTOR, with two lateral swivel blades and one centre blade, stainless steel .. .. each



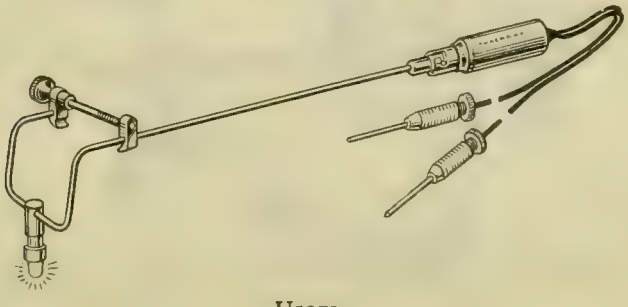
U1271

Cat. No.

U1271 PYRAH'S MODIFIED MORSON'S BLADDER RETRACTOR, with one posterior blade, two pairs of lateral swivel blades, stainless steel, and one light carrier complete with rubber covered cables and spare lamp .. complete

U1272 Spare Lamps for above, 3·5 volts .. .. each

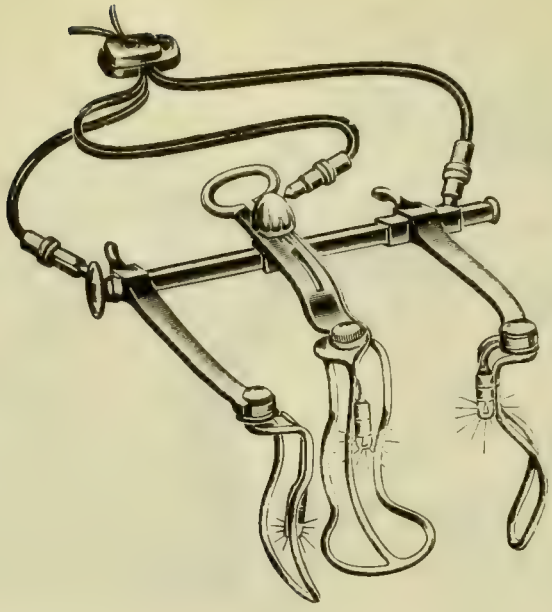
The salient features of this instrument are : the posterior blade carries a suction tube and the lateral blades are hinged so that the frame can be tilted for use with obese patients.



U1273

U1273 MORSON'S LAMP, for attaching to posterior blade of Thomson-Walker's Retractor, chromium plated, complete with rubber covered cables and spare lamp, each

U1274 Spare Lamps for above, 3·5 volts .. .. each



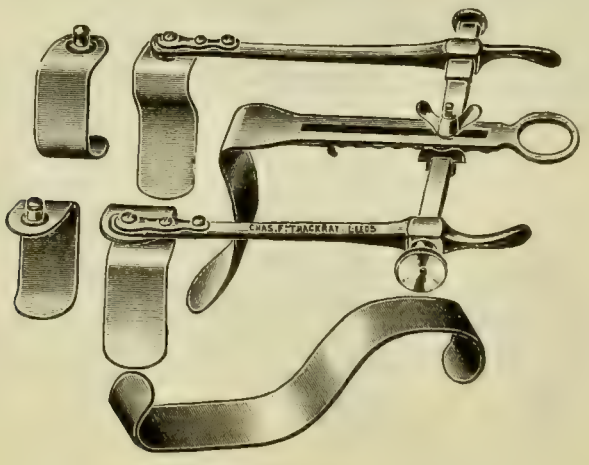
U1275

Cat. No.

U1275 MORSON'S BLADDER RETRACTOR, with three posterior blades, two pairs of lateral swivel blades, stainless steel; and three light carriers complete with rubber covered cables and spare lamp .. .. complete

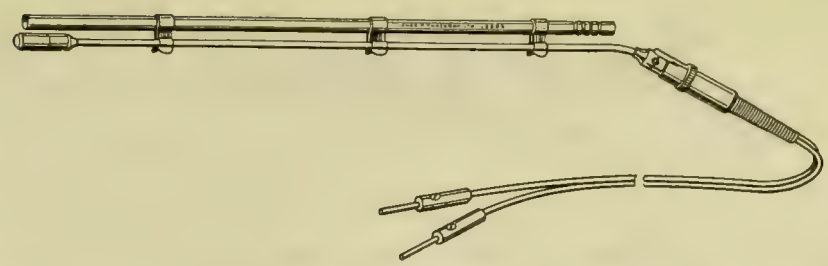
U1276 Ditto .. with one light carrier on posterior blade only .. .. each

U1277 Spare Lamps for above, 3·5 volts .. .. each



U1278

U1278 THOMSON-WALKER'S BLADDER RETRACTOR, with one posterior blade, two pairs of lateral swivel blades and one blade for the anterior wall, stainless steel .. .. each



U1279

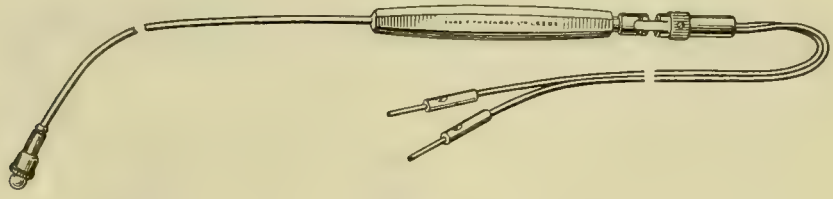
Cat. No.

U1279 EVERIDGE'S LIGHT AND SUCTION TUBE, consisting of: chromium plated suction tube and detachable light carrier complete with rubber covered cables and spare lamp .. .. each

U1280 Ditto .. curved .. .. each

U1281 Spare Lamps for above, 3·5 volts .. .. each

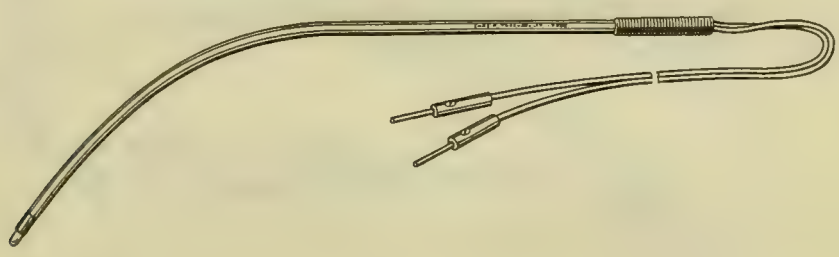
Vide the "Lancet", May 3rd, 1952. Page 905.



U1282

U1282 MILLIN'S LIGHT, malleable shaft, chromium plated, complete with rubber covered cables and spare lamp .. .. each

U1283 Spare lamps for above, 6 volts .. .. each

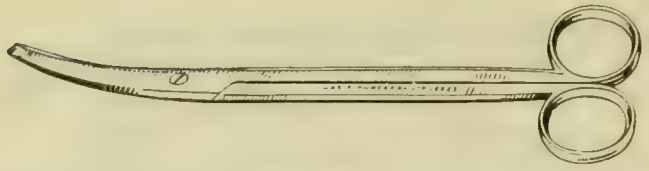


U1284

U1284 WARD'S LIGHT CARRIER, malleable shaft, complete with rubber covered cables and spare lamp .. .. each

U1285 Spare lamps for above, 3·5 volts .. .. each

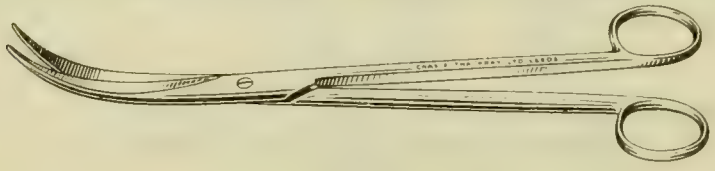
NOTE.—All the above light carriers can be sterilized by boiling and the lamp bulbs sterilized in alcohol.



U1286

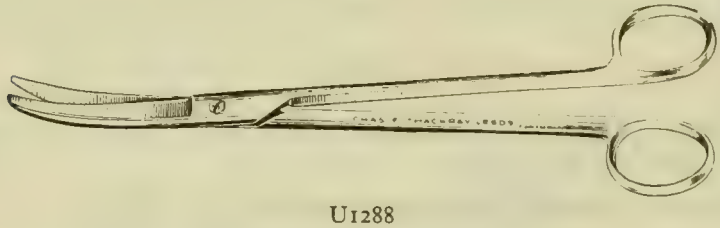
Cat. No.

U1286 DEVINE'S SCISSORS (as used by Millin), curved-on-flat, with chisel-ended blades, 7 in., stainless steel .. .. each



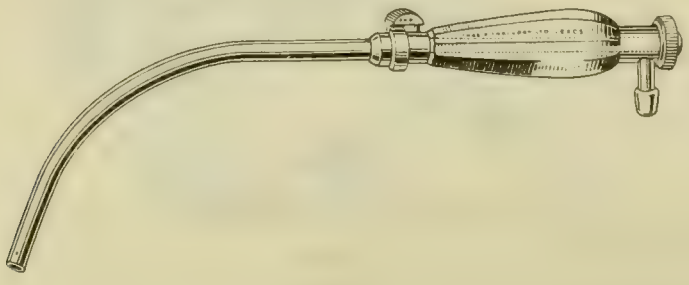
U1287

U1287 MAYO TYPE BLADDER SCISSORS, curved-on-flat, 10 in., with tapered blades, stainless steel .. .. each



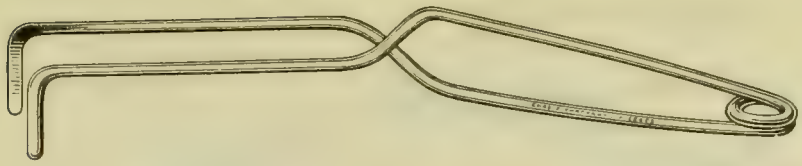
U1288

U1288 THOMSON-WALKER'S BLADDER SCISSORS, curved-on-flat, 8 in., stainless steel .. .. each



U1289

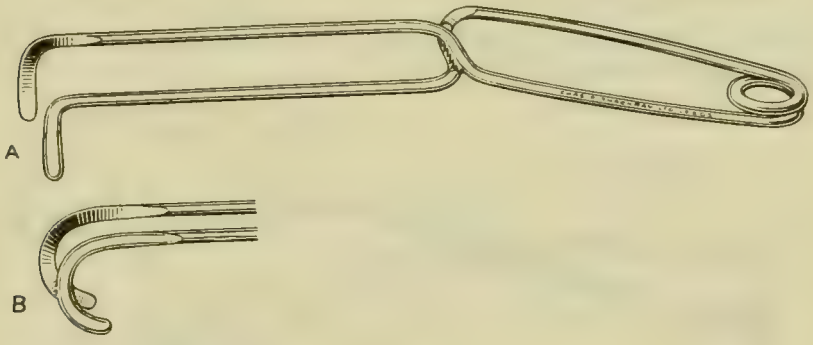
U1289 MILLIN'S SUCTION TUBE, with thumb control, chromium plated .. each



U1290

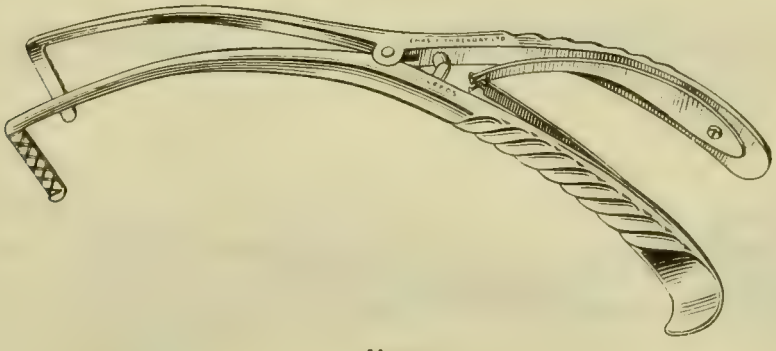
Cat. No.

U1290 MILLIN'S BLADDER NECK SPREADER, cross-action, spring wire, stainless steel .. .. each



U1291

U1291 MODIFIED MILLIN'S BLADDER NECK SPREADER, with rack, two patterns: angled jaws, Millin's (A) and curved jaws, Graham's (B), stainless steel, each

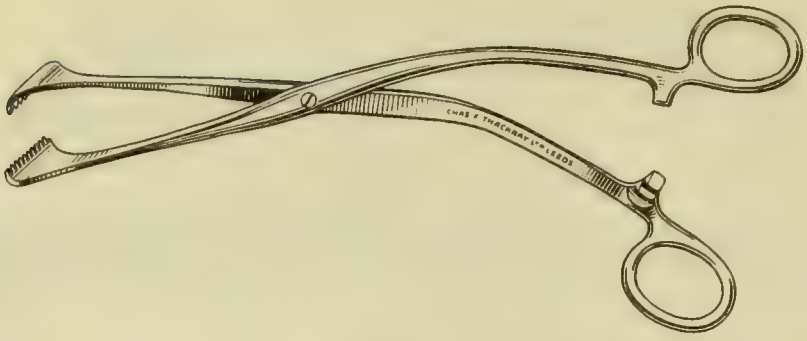


U1292

U1292 MITCHELL'S BLADDER NECK SPREADER, stainless steel .. each

This instrument has been designed to provide a comfortable grip with steady retraction. Stops are fitted to the handles to avoid over-stretching of the bladder neck.

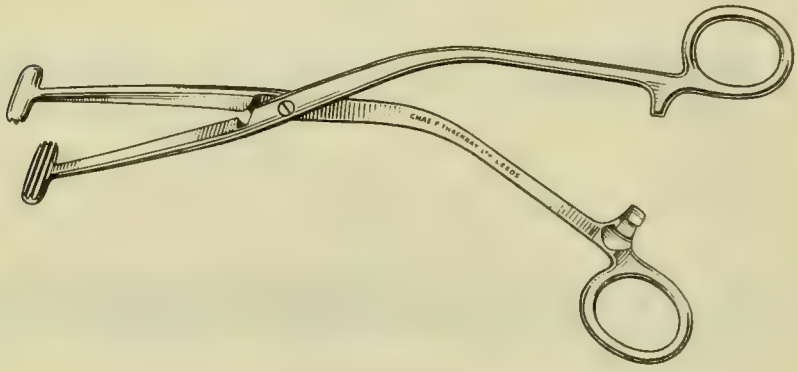
Vide the "Lancet", January 26th, 1952. Page 193.



U1293

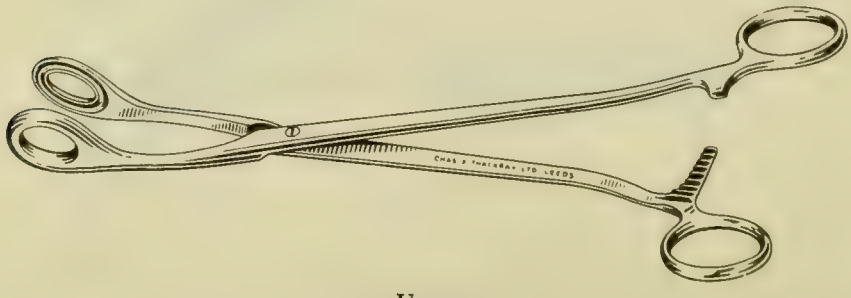
Cat. No.

U1293 MILLIN'S VULSELLUM FORCEPS, two sizes: $\frac{5}{8}$ in. and $\frac{5}{16}$ in. width of jaws, screw joint, stainless steel .. .. each



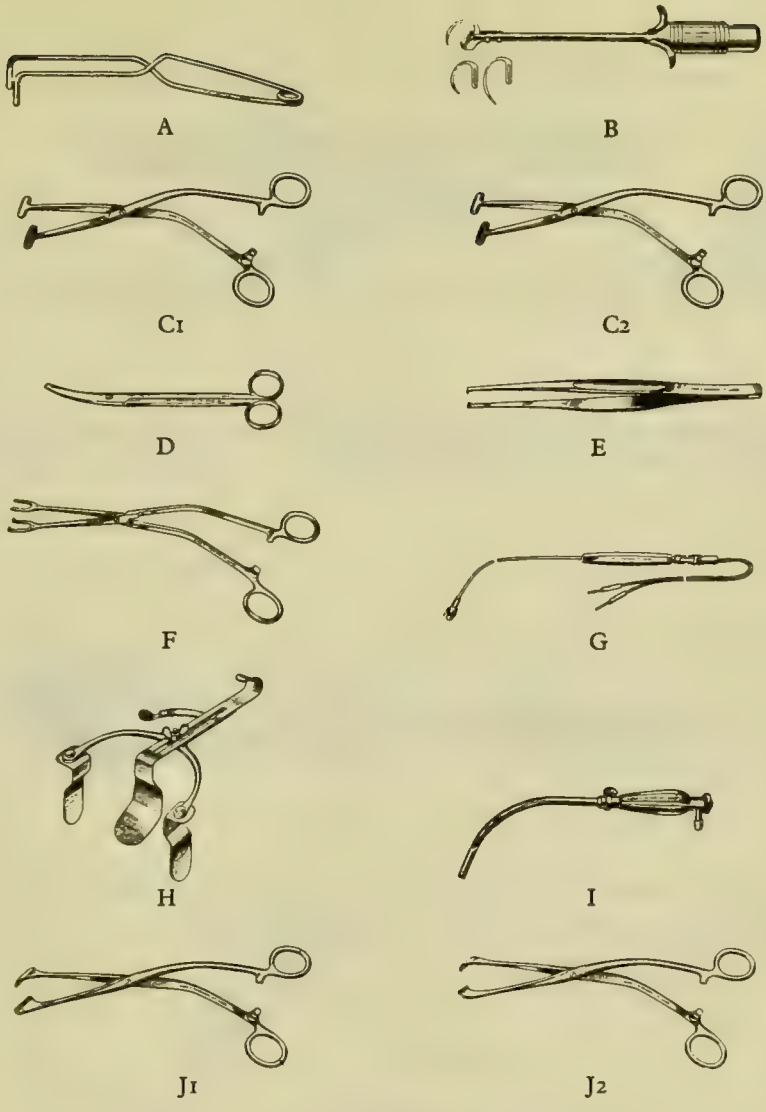
U1294

U1294 MILLIN'S CAPSULE FORCEPS, screw joint, $8\frac{3}{4}$ in., stainless steel .. each



U1295

U1295 YOUNG'S PROSTATIC DELIVERY FORCEPS, screw joint, $9\frac{3}{4}$ in., stainless steel .. .. each

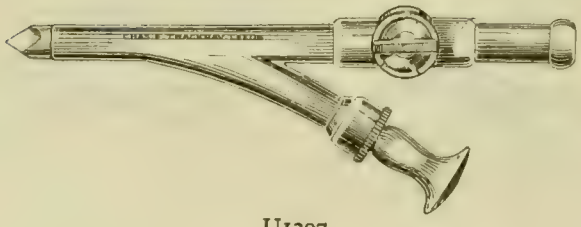


U1296

at. No.

U1296 Complete set of Millin's instruments for retropubic prostatectomy, consisting of:

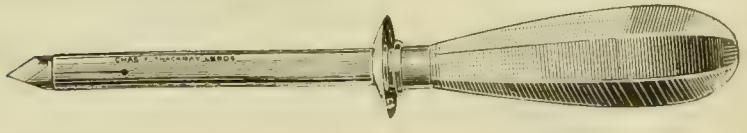
(A)	One Bladder Neck Spreader, Fig. U1290	each
(B)	One Boomerang Needle Holder, Fig. U1255	each
(C)	Two Capsule Forceps, Fig. U1294	each
(D)	One Chisel-Ended Scissors, Fig. U1286	each
(E)	One Dissecting Forceps, Fig. U1253	each
(F)	One Ligature Holding Forceps, Fig. U1262	each
(G)	One Malleable Light, Fig. U1282	each
(H)	One Retractor, Fig. U1270	each
(I)	One Suction Tube, Fig. U1289	each
(J)	Two Vulsellum Forceps, one each two sizes, Fig. U1293 ..	each



U1297

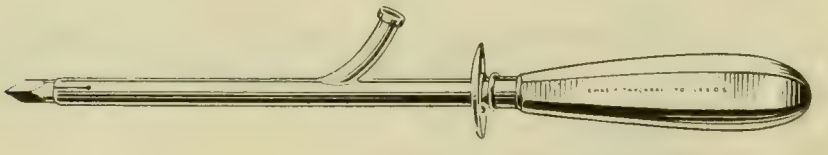
Cat. No.

U1297 KIDD'S SUPRAPUBIC TROCAR, stainless steel, with chromium plated cannula, stopcock and side-tube, 30 French Catheter Gauge .. .. .. each



U1298

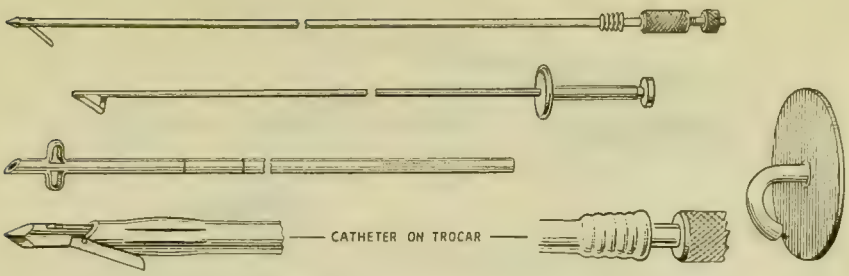
U1298 PEZZER'S SUPRAPUBIC TROCAR, stainless steel, with chromium plated cannula and handle, three sizes : 25, 30 and 35 French Catheter Gauge .. .. each



U1299

U1299 MORSON'S BLADDER TROCAR, stainless steel with chromium plated cannula, side-tube and handle, 30 French Catheter Gauge .. .. .. each

Note.—Catheter Gauges: page U194.



U1300

Cat. No.

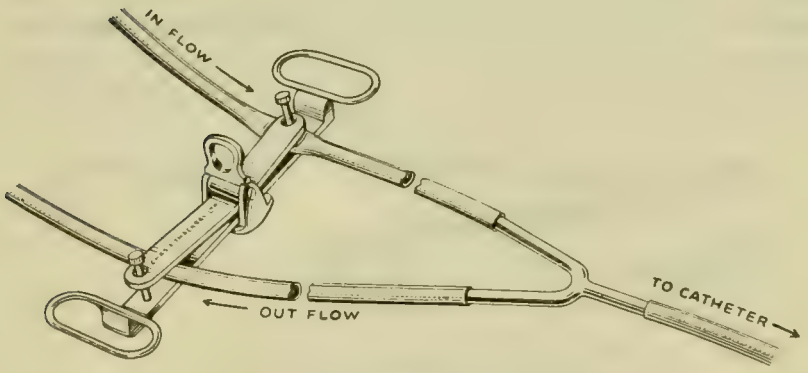
U1300 RICHES' TROCAR AND ADVANCER, nickel plated, with self-retaining rubber catheter and rubber shield .. .. each

U1301 Trocar and Advancer only .. .. per pair

U1302 Self-Retaining Catheter only .. .. each

U1303 Shield only .. .. each

Riches' Suprapubic Catheterisation Set is used for paralysis of the bladder in spinal injury and is fully described in the "B.M.J." May 21st, 1949. Page 889.

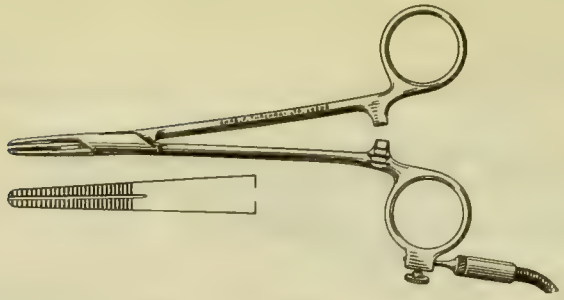


U1304

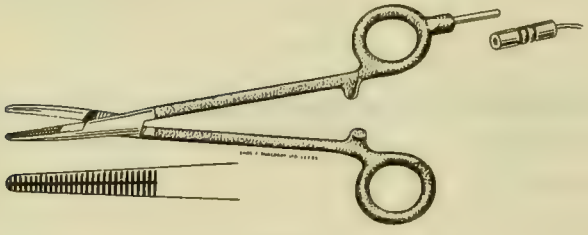
U1304 SHEPPARD'S ROCKER CLAMP, for control of bladder irrigation, stainless steel .. .. each

This apparatus is easily operated one-handed, even by the patient, and the swing over from inflow to outflow position allows a brief flushing of the dead space, thus washing away clots into the bucket rather than back into the bladder.

Vide "British Journal of Urology", June 1952, page 150.



U1306



U1309

Cat. No.

*U1305 WILSON HEY'S ARTERY FORCEPS, with attachment on bow for diathermy terminal, without grooves on jaws, straight, box joint, $5\frac{3}{4}$ in., stainless steel each

U1306 Ditto .. with grooves on jaws for needles, box joint, 7 in. .. .. each

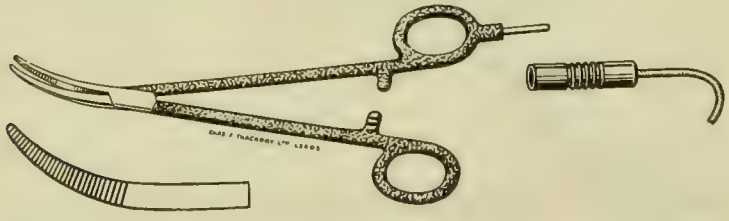
U1307 Ditto .. with grooves on jaws for needles, box joint, 9 in. .. .. each

*U1308 WILSON HEY'S ARTERY FORCEPS, with shanks and bows covered with boilable insulating material and attachment on bow for diathermy terminal, without grooves on jaws, straight, box joint, $5\frac{3}{4}$ in., stainless steel .. .. .. each

U1309 Ditto .. with grooves on jaws for needles, box joint, 7 in. .. .. each

U1310 Ditto .. with grooves on jaws for needles, box joint, 9 in. .. .. each

As described in the "B.M.J." June 21st, 1947, and the "British Journal of Surgery", vol. 33, 129, 1945: "Asepsis in Prostatectomy".



U1312

U1311 RICHES' ARTERY FORCEPS, with shanks and bows covered with boilable insulating material and attachment for diathermy terminal, curved-on-flat, box joint, $5\frac{1}{2}$ in., stainless steel .. .. each

U1312 Ditto .. box joint, 8 in. .. .. each

U1313 CABLES, with pin-terminal for Fig. Nos. U1305–U1307 .. .. each

U1314 CABLES, with socket type terminal for Fig. Nos. U1308–U1312 .. each

As described in the "B.M.J.", June 21st, 1952. Page 1356.

**Not illustrated*

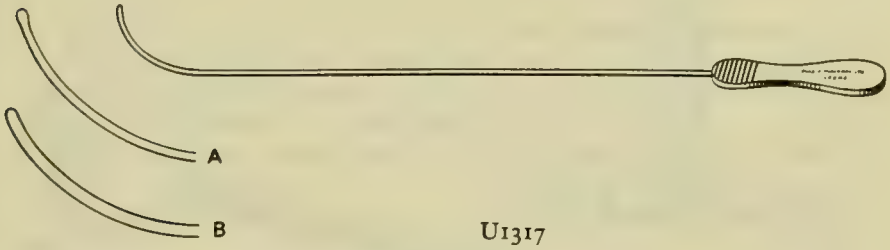


U1315

Cat. No.

U1315 MALECOT'S CATHETER, self-retaining, with two winged tip, soft rubber, size 6, English Catheter Gauge (12 French Catheter Gauge) .. .. each

*U1316 CATHETER SPIGOT, for above, small size, boxwood .. .. each

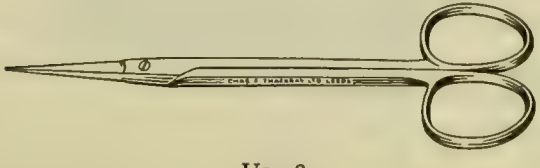


U1317

U1317 DENIS BROWNE'S INTRODUCER, two patterns: A and B, for Malecot's Catheters, Fig. U1315, stainless steel .. .. each

Pattern A is of fine gauge and flexible for initial introduction. Pattern B is of stouter gauge and rigid for pressing the head of the catheter so that it will protrude in the perineum. At this point a cut is made with a diathermy knife and the shaft of the catheter drawn through the hole, for diversion of urine by perineal drainage.

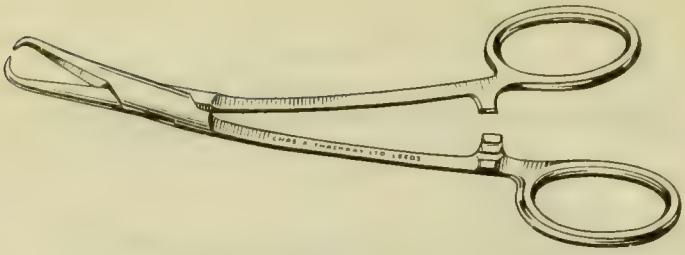
Vide. "Hypospadias" by Denis Browne, Postgraduate Medical Journal, Vol. XXV, p. 367.



U1318

U1318 FINE POINTED SCISSORS, 4½ in., stainless steel .. .. each

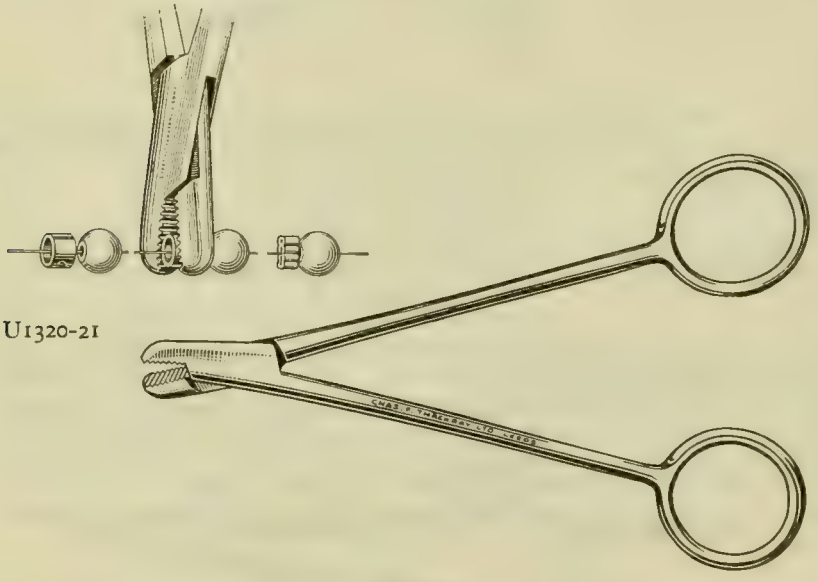
**Not illustrated*



U1319

Cat. No.

U1319 DENIS BROWNE'S TOWEL FORCEPS, for penile holding, box joint, $5\frac{1}{2}$ in., stainless steel .. .. each



U1320-21

U1322

U1320 DENIS BROWNE'S COLLARS, Aluminium, for "Double Stop" Sutures, per 100

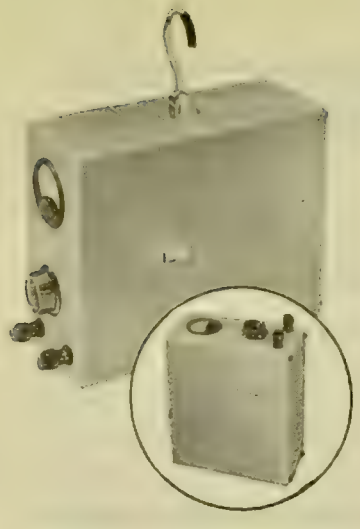
U1321 DENIS BROWNE'S BEADS, glass, for "Double Stop" Sutures, per 100

U1322 DENIS BROWNE'S CLAMPING FORCEPS, for "Double Stop" Suture Collars, box joint, $5\frac{3}{4}$ in., stainless steel .. .. each

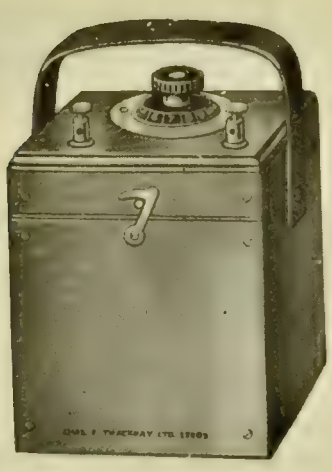
The aluminium collars are crushed on to the suture material and hold the glass beads firmly in position next to the skin. They are particularly useful in hypospadia operations in which ordinary sutures may cut through the delicate skin. For removal the sutures are cut between bead and collar, thus avoiding contact with the skin.

Vide "Postgraduate Medical Journal", Vol. XXV, page 367, by Denis Browne.

NOTE.—Recommended Sutures Material: stout monofilament Nylon and size 3/0 or 4/0 catgut.



U1323



U1325

Cat. No.

U1323 BATTERY BOX with VOLTMETER, for use with illuminated instruments, with 4½ volts dry cell battery, cream enamelled wood case .. .. complete

U1324 Spare Batteries, 4½ volts for above .. .. each

This Battery Box provides safe illumination for expensive miniature lamps rated up to 4½ volts by means of a graduated rheostat, which can be adjusted until the exact voltage is shown on the voltmeter.

U1325 BATTERY BOX, with rheostat, with two 4½ volts dry cell batteries and carrying handle .. .. complete

U1326 Spare Batteries, 4½ volts, for above .. .. each

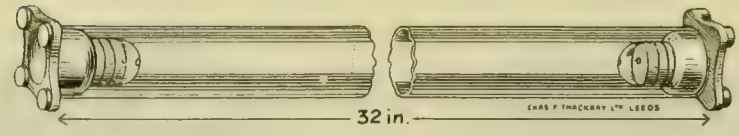
Simple Type Battery Box: see page G154.



U1327

U1327 TRANSFORMER FOR LIGHT AND HEAVY DUTY CAUTERY, for A.C. mains of 100, 200, 220, and 240 volts, with rheostat for lamps giving control from zero to 8 volts and rheostat for cauteries .. .. each

For full range of transformers, see our separate catalogue section of Electro-Medical Apparatus.



U1328

Cat. No.

U1328 URETERIC CATHETER HOLDER, glass with rubber bungs and glass formalin containers, 32 in. long .. .. each

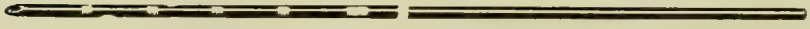
U1329 Ditto .. non-inflammable, unbreakable, transparent plastic .. .. each

U1330 FORMALIN TABLETS, for above .. .. per 50
per 100

NOTE.—Spare Bungs, Formalin Containers and Tubes available on request.



U1331



U1332

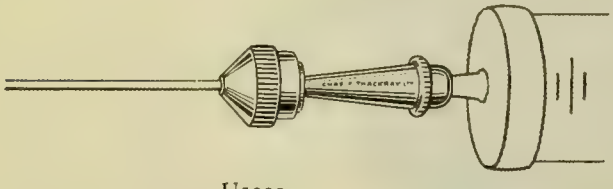
U1331 URETERIC CATHETER, OLIVARY TIP, X-ray opaque, woven Nylon, gum-elastic, with two lateral eyes, graduated in cms., sizes: 4, 5, 6, 7, 8, 9 and 10 French Catheter Gauge .. .. each

U1331A Ditto .. with metal olivary tip (permits easier introduction into the ureter) each

U1331B Ditto .. Greytex Terylene, olivary tip (not metal) .. .. each

U1332 Ditto, as U1331 but whistle tip (fluted) .. .. each

U1332A Ditto .. Greytex Terylene, whistle tip .. .. each



U1333



U1335

U1333 PYELOGRAPHY NIPPLE, for connecting ureteric catheter to syringe, Record fitting, chromium plated .. .. each

U1334 Ditto .. Luer fitting .. .. each
As the screw is turned the proximal end of the catheter is securely held.

U1335 PYELOGRAPHY MOUNT, for connecting ureteric catheter to syringe, Record fitting, chromium plated .. .. each

U1336 Ditto .. Luer fitting .. .. each



U1337

Cat. No.

U1337 UNIVERSAL CYSTOSCOPIC FORCEPS, consisting of: detachable handle and three assorted ends with flexible shafts permanently attached: A, B and C, stainless steel .. .. each

U1338 Handle only .. .. each

U1340 Ends A, B or C complete with flexible shafts permanently attached, stainless steel, each



U1341-2

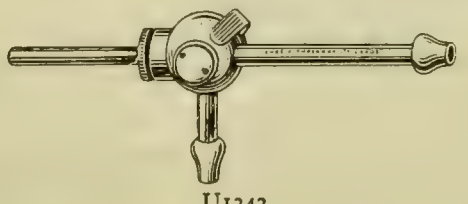
†U1341 DIATHERMY ELECTRODE, for cystoscope, nickel tip, gum-elastic shaft 18½ in. long, four sizes of tip: 4, 5, 6 and 7 French Catheter Gauge .. each

U1341A Ditto .. with pointed end .. .. each

U1341B Ditto .. with flattened end .. .. each

U1342 Cable for above, rubber covered .. .. each

†*Also available with white Nylon shaft, on request.*



U1343

U1343 IRRIGATING NOZZLE, two-way, for Cystoscopes, chromium plated, each

UROLOGICAL INSTRUMENTS

CYSTOSCOPES, URETHROSCOPES AND INSTRUMENTS FOR PROSTATIC RESECTION

In the following pages is illustrated and described a representative range of *British Made* instruments which will enable the surgeon to choose an up-to-date armamentarium for visual procedures in the bladder and urethra. These delicate instruments require care and attention if maximum service is to be obtained and these notes are compiled to assist those who have the care of such instruments. To keep cystoscopes, etc., in perfect condition, an understanding of the function and construction of the various parts is necessary and particularly the cardinal points to be observed for their maintenance in perfect order. To preserve smooth untarnished surfaces (essential for instruments in this field), metal sheaths and metallic parts are now *chromium plated.*

Cleaning: it is advisable to thoroughly clean all instruments *immediately after use.* This is best done by rinsing all parts under the cold water tap to remove any accumulated lubricating medium, etc. A solution of green soap and water may be used with advantage to swab the various parts. The lumen of all instruments should be thoroughly cleaned with cotton-wool and finally dried prior to storage.

Sterilization: when clean and *thoroughly* dry, sterilization can be carried out by placing the various parts in a Formaldehyde Cabinet; the vapour of formaldehyde is an efficient sterilizing agent and the instruments are ready for immediate use *after a period of several hours.* For those who prefer to sterilize the instruments by immersion in antiseptic solutions, the following are recommended:

"Hibitane" (Chlorhexidine): A 1 : 5,000 aqueous solution prepared from "Hibitane" diacetate powder may be used; after washing, the instrument should be kept immersed in the solution for at least half an hour. There is no need to rinse the instruments with sterile water before use. If a rapid method is required, gently agitate the instrument in a solution of 1 : 200 "Hibitane" (diacetate powder) in 70 per cent alcohol for one minute and rinse before using.

Carbolic Acid: an aqueous solution, 1 : 20, is an effective sterilizing agent (40 minutes' immersion), followed by thorough rinsing in steriie water before use.

Mercury Oxy-Cyanide: an aqueous solution, 1 : 1,000 is recommended; as the solution is very poisonous, it may be coloured with phenol-sulphone-phthalein (1 mil. per gallon). Sterilization is effective after 15 minutes' immersion; subsequent rinsing in sterile water is advisable.

Where the same instrument has to be used repeatedly during an operative session, *thorough washing under running cold water* is recommended prior to sterilization in the antiseptic solution of choice.

Telescopes: the glass windows are fixed with special cement. *Do not* immerse these instruments in alcohol. The glass windows are best cleaned with a small pledget of cotton wool on a *wooden* probe (such as a sharpened match-stick or tooth-pick).

Caution:

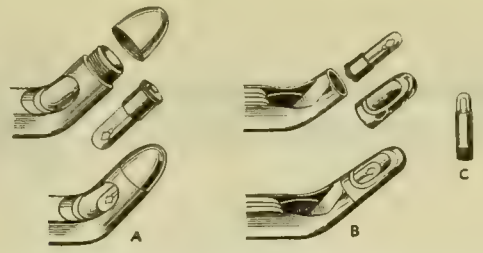
Do not boil any part of a cystoscope that contains lamps or lenses.

Do not leave the instrument in alcohol for lengthy periods as this may have a solvent action on the cement.

Do not immerse the eye shield of the optical system in liquid solution.

By following these directions, leaks into the lens system and short circuits in the wiring will be avoided.

Illumination: all the cystoscopes illustrated are now illuminated by a new type of lamp bulb, known as the *Cartridge Lamp Bulb.*

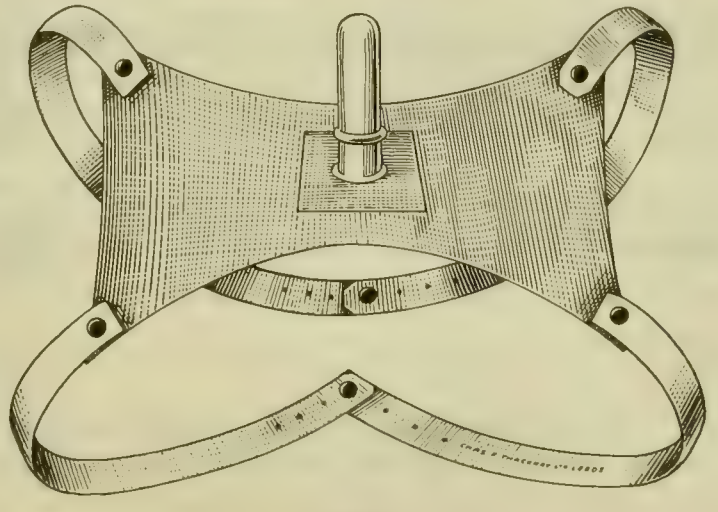


These lamps (A) are rated at 3.5 volts and are made in three standard sizes : B.S.70, B.S.60 and B.S.50, according to the size of the sheath. The lamp is housed in a metal case and has a spiral wire terminal which must make contact with the insulated connection in the distal end of the cyctoscope. If the lamp fails to light the pin terminal should be gently eased out with the point of a needle or pin.

The older type of lamp was an integral part of the beak of most cystoscopes. Apart from their high cost, new replacement lamps could not always be guaranteed to fit in perfect alignment with the telescope. Fig. B shows the solution of this problem. Each cystoscope (such as Ringleb and Swift Joly models) is now provided with two *hooded windows* (one as a spare) for each sheath ; these windows are correctly aligned at the time of manufacture. Consequently, the changing of a lamp presents no difficulty as it is merely necessary to remove the window and insert a new Cartridge type lamp. The correct size for re-ordering is clearly stated on a metal plate inside the case which contains the instrument.

Fig. A shows a fixed window which is an integral part of the cystoscope sheath (Brown-Buerger and Millin's instruments). Closure of the housing for the lamp is by means of a rounded metal cap, inside which is a spring-loaded terminal to ensure contact with the spiral wire of the lamp. In these models, the bulb is placed in the housing downwards (as shown). The same Standard type lamps are used in these as in the models illustrated in Fig. B.

Fig. C shows the type of lamp fitted to Forward-oblique/vision telescopes, in which the lamp screws directly into the end of the telescope. These lamps also have a spiral wire contact which requires the same attention as the other lamps described.



U1344

Cat. No.

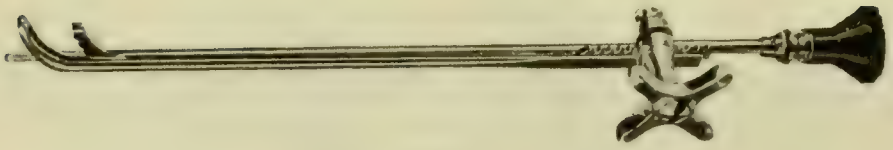
U1344 O'CONOR'S RECTAL SHEATH, rubber, with "finger cot" attached to rubber sheet, and straps .. .. each

*U1345 Ditto .. Rectal Drape, with square sheet 24 in. square to cover entire perineum, each

**Not illustrated*

UROLOGICAL INSTRUMENTS

CANNY RYALL'S CYSTOSCOPIC LITHOTRITE



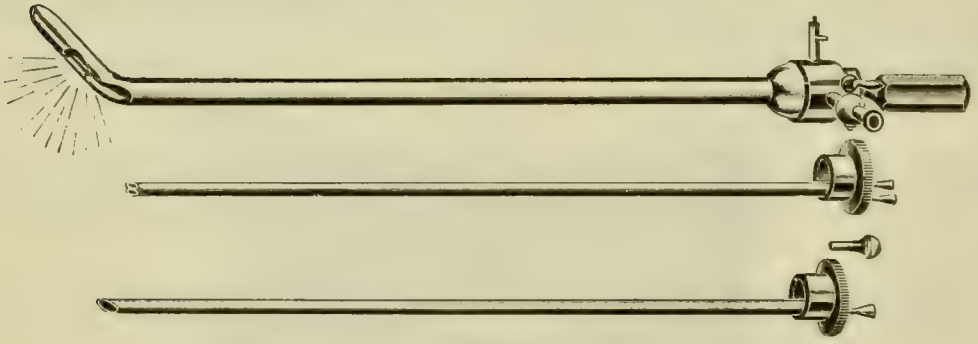
U1346

Cat. No.

U1346 CANNY RYALL'S CYSTOSCOPIC LITHOTRITE, stainless steel, with forward-oblique vision Telescope, Obturator, two-way Irrigating Nozzle, chromium plated, Spare Lamp, Switch and rubber-covered Cables, in polished mahogany case .. ..complete

*U1347 Spare Lamps, 3·5 volts .. .. each

BRAASCH'S DIRECT VISION CYSTOSCOPE



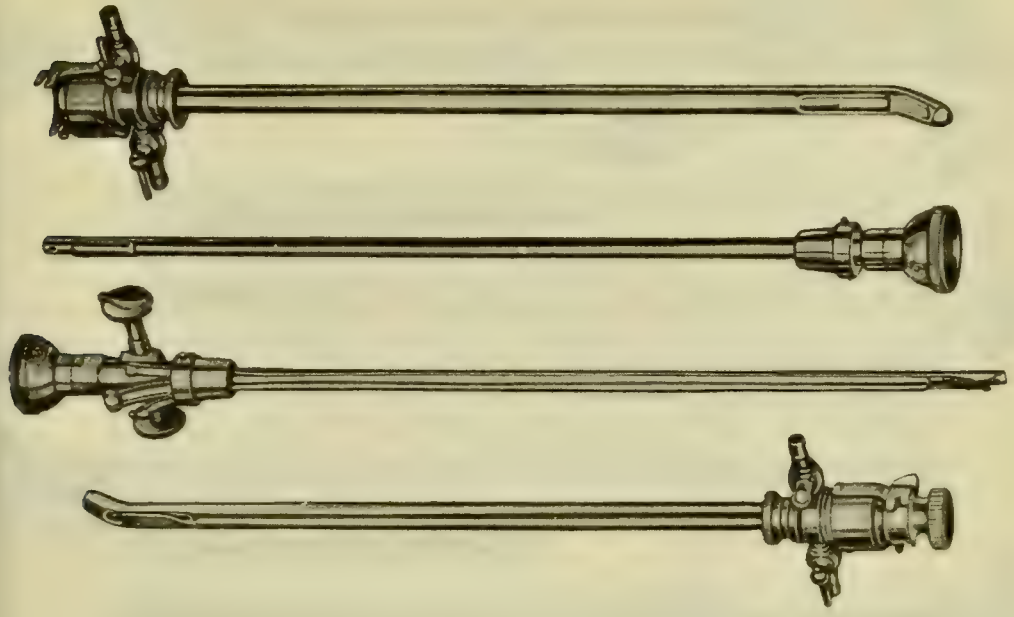
U1348

U1348 BRAASCH'S CYSTOSCOPE, DIRECT VISION, consisting of: Sheath size 24 French Catheter Gauge, single and double Catheterising Attachments, Obturator, Observation Window, Switch and rubber-covered Cables, two X-ray Opaque Ureteric Catheters, two Spare Lamps in mahogany case .. ..complete

*U1349 Spare Lamps, 3·5 volts .. .. each

**When ordering please state number on lamp plate inside lid of case.*

BROWN-BUERGER'S CONVERTIBLE CYSTOSCOPE FOR OPERATING, CATHETERISING AND EXAMINING



U1350

Cat. No.

U1350 BROWN-BUERGER'S CONVERTIBLE CYSTOSCOPE, consisting of: one each Concave and Convex Sheaths size 24 French Catheter Gauge, Obturator, Examining Telescope, Convertible Telescope—for operating and double catheterising with removable fin, two X-ray Opaque Ureteric Catheters, Catheter Clip, one Spare Lamp to each sheath, Switch and rubber-covered Cables, six each plain and perforated Rubber Caps and Cleaning Rod, in polished mahogany case complete

U1351 Ditto .. but with Sheaths size 21 French Catheter Gauge .. complete

U1352 Ditto .. with Concave Sheath only, size 24 French Catheter Gauge, Examining Telescope, Convertible Telescope and complete with accessories, in polished mahogany case .. .. complete

U1353 Ditto .. but with Sheath size 21 French Catheter Gauge .. complete

U1354 Ditto .. with Convex Sheath only, size 24 French Catheter Gauge, Examining Telescope, Convertible Telescope and complete with accessories, in polished mahogany case .. .. complete

U1355 Ditto .. but with Sheath size 21 French Catheter Gauge .. complete

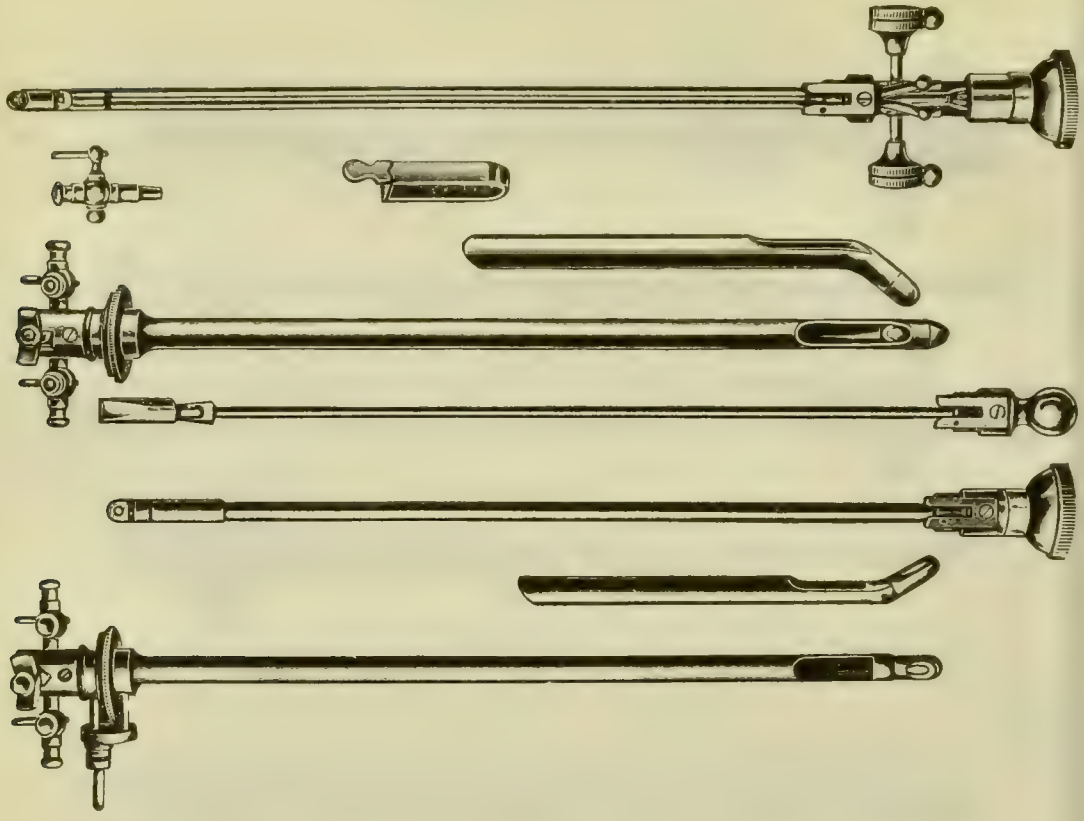
*U1356 Spare Lamps, 3·5 volts .. .. each

This cystoscope can be used for single or double catheterisation: the removal of the centre fin of the Catheterising and Operating Attachment converts the instrument for single catheterisation and also provides a single large channel for the admission of operating instruments up to size 10 French Catheter Gauge (Forceps, Scissors, etc., see page U235).

**When ordering please state reference number on lamp plate inside lid of case.*

UROLOGICAL INSTRUMENTS

BROWN-BUERGER'S CYSTOSCOPE, FOR CATHETERISING AND EXAMINING



U1357

Cat. No.

U1357 BROWN-BUERGER'S CYSTOSCOPE, consisting of: one each of Concave and Convex Sheaths, size 24 French Catheter Gauge, Obturator, Examining Telescope, Double Catheterising Attachment with Telescope, two X-ray Opaque Ureteric Catheters, Catheter Clip, one Spare Lamp to each sheath, Switch and rubber-covered Cables, six perforated Rubber Caps and Cleaning Rod, in polished mahogany case .. .. complete

U1358 Ditto .. but with Sheaths size 21 French Catheter Gauge .. complete

U1359 Ditto .. with Concave Sheath only, size 24 French Catheter Gauge, Examining Telescope, Double Catheterising Attachment with Telescope and complete with accessories, in polished mahogany case .. .. .. complete

U1360 Ditto .. but with Sheath size 21 French Catheter Gauge .. complete

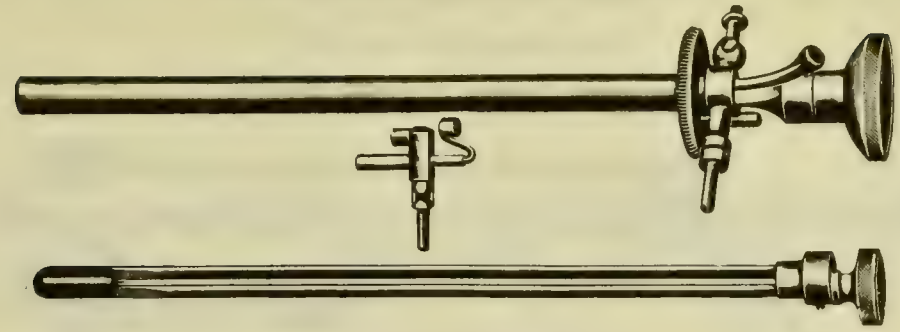
U1361 Ditto .. with Convex Sheath only, size 24 French Catheter Gauge, Examining Telescope, Double Catheterising Attachment with Telescope and complete with accessories, in polished mahoghany case .. .. .. complete

U1362 Ditto .. but with Sheath size 21 French Catheter Gauge .. complete

*U1363 Spare Lamps, 3·5 volts .. .. each

**When ordering please state reference number on lamp plate inside lid of case.*

GEIRINGER'S URETHROSCOPE



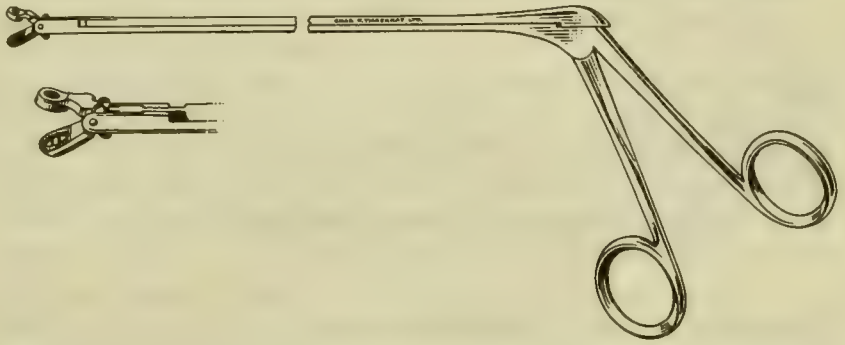
U1364

Cat. No.

U1364 GEIRINGER'S URETHROSCOPE, consisting of: Sheath size 25 French Catheter Gauge and Obturator with adjustable beak, Young's external light carrier, direct-vision lens system Telescope with light carrier, fitted with stopcock for water inflow and a channel through which a ureteric catheter, filiform bougie or fulguration applicator can be introduced; complete with rubber-covered Cables, Cleaning Rod and one Spare Lamp, in polished mahogany case complete

*U1365 Spare Lamps for Telescope, 3·5 volts .. .. each

U1365A Spare Lamps for external light carrier 3·5 volts .. .. .. each



241-6042

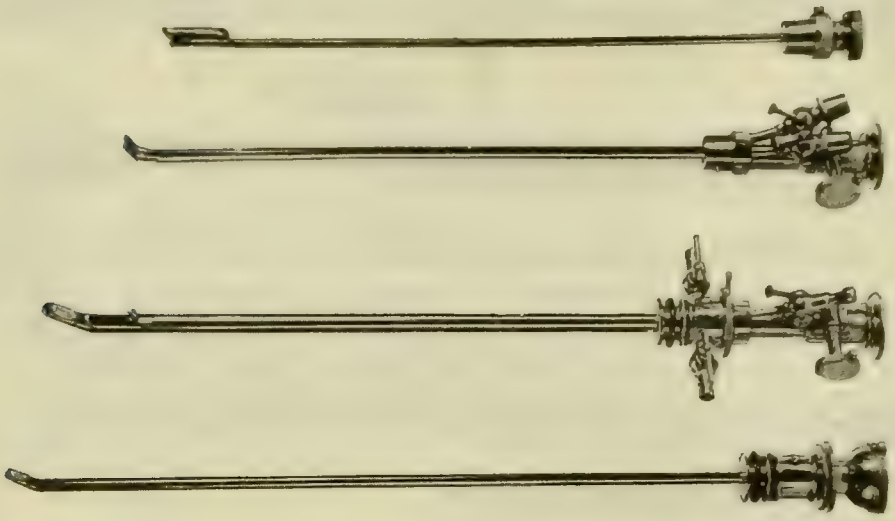
Cat. No.

241-6042 SWINNEY'S BLADDER BIOPSY FORCEPS, with double action jaws, 30 cm. long, stainless steel ....

Mr. J. Swinney, M.C., M.D., M.S., F.R.C.S., Senior Consultant Urologist, General Hospital, Newcastle-upon-Tyne, writes :—

" These biopsy forceps were designed for sampling soft lesions of the bladder viewed through a Braasch Cystoscope. Operation is simple ; the window of the Cystoscope is removed after visualizing the area in question, the forceps passed down the sheath and requisite pieces of tissue withdrawn."

**When ordering please state reference number on lamp plate inside lid of case.*



U1370

Cat. No.

U1370 SWIFT JOLY'S CYSTOSCOPE, consisting of: Universal Telescope, Operating Sheath size 24 French Catheter Gauge, with Obturator, Operating and Single Catheterising Slide, Double Catheterising Slide, Examining Sheath size 18 French Catheter Gauge, two X-ray Opaque Ureteric Catheters, one Spare Lamp for each sheath, Switch and rubber-covered Cables, six perforated Rubber Caps, Irrigation Nozzle and Cleaning Rod, in polished mahogany case .. complete

U1371 Ditto .. but with Operating Sheath size 21 French Catheter Gauge and Examining Sheath size 15 French Catheter Gauge .. .. .. each

†U1372 Spare Lamps, 3·5 volts .. .. each

The Operating and single Catheterising Slide of this cystoscope admits instruments such as forceps, scissors, etc., up to size 10 French Catheter Gauge (see page U235).

*U1373 DIATHERMY ATTACHMENT, for Swift Joly's Cystoscope, to take Fulguration Electrode, for treatment of growths on the anterior wall of the bladder, each

*U1374 RETROGRADE TELESCOPE, for use with above .. .. each

*U1375 FULGURATION ELECTRODE, size 6 French Catheter Gauge for use with above .. .. each

*U1375A DIATHERMY CABLE, for use with above, rubber covered .. .. each

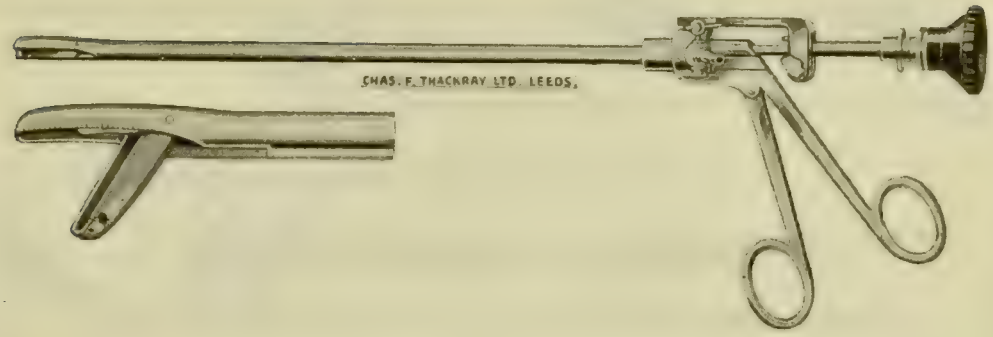
†*When ordering please state reference number on lamp plate inside lid of case.*

**Not illustrated*

LOWSLEY'S GRASPING FORCEPS

With improved irrigating system.

For perurethral biopsy of bladder tumours, etc.



U1376

Cat. No.

U1376 LOWSLEY'S GRASPING FORCEPS, improved model, complete with Irrigating Connection, forward-oblique vision Telescope, rubber-covered Cables, and one Spare Lamp, complete in mahogany case .. .. each

U1377 Spare Lamps, 3·5 volts .. .. each

*U1378 Lowsley's Grasping Forceps only, stainless steel, without telescope, cables or mahogany case .. .. each

**Existing forward-oblique vision telescope required to ensure correct fit.*

The use of this instrument has recently been described by J. G. Sandrey, F. Masina and C. Dukes of St. Peter's Hospital, London. Its irrigating system has been slightly improved without sacrificing any of its other features and it permits a steady stream of water to be admitted into the bladder.

Made with a cannula size 22 French Catheter Gauge, of a working length of 9 in. the instrument has hardened steel jaws which are serrated at the cutting edge, to enable a clean specimen to be cut. A forward-oblique vision telescope is used with the instrument which can either be supplied complete with a telescope or adapted to take an existing one (whether of British or American manufacture).

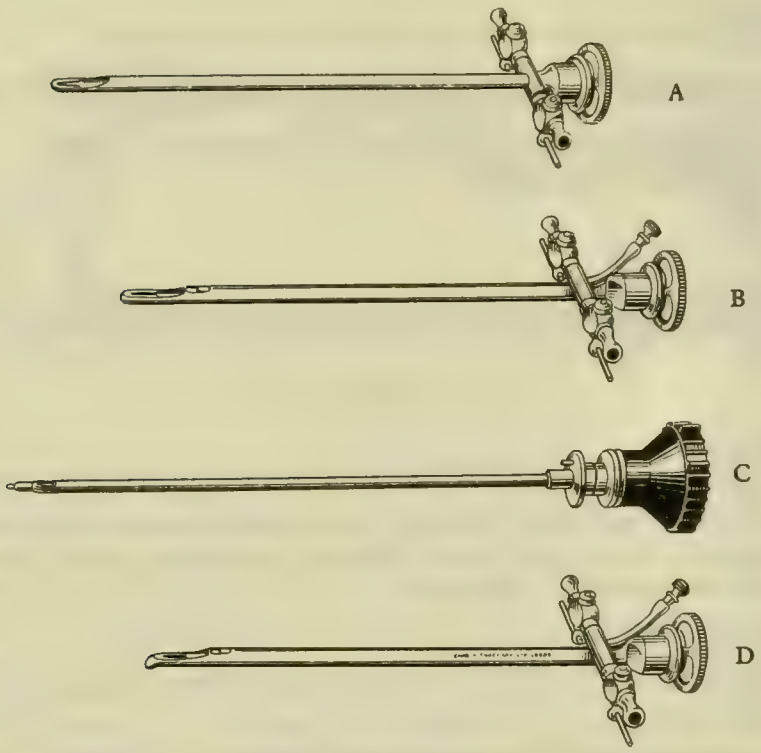
Its smooth contour permits direct introduction into the bladder. In addition to its usefulness for taking specimens for biopsy it can also be used to remove soft foreign bodies from the bladder, such as a broken ureteric catheter.

Vide "Annals of the Royal College of Surgeons of England", Vol. 6, May 1950, "Biopsy of Bladder Tumours by Perurethral Methods", pages 323–342.

UROLOGICAL INSTRUMENTS

McCARTHY'S INFANTS' CYSTOSCOPE

For operating, catheterisation and examining.



U1379

Cat. No.

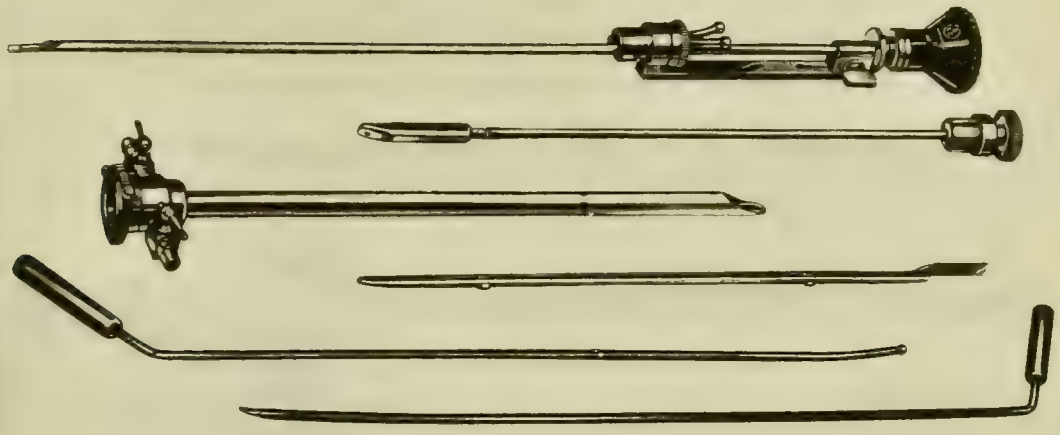
U1379 McCARTHY'S INFANTS' CYSTOSCOPE, for Examining and Single Catheterising, consisting of: Examination Sheath (A) size 12 French Catheter Gauge, Single Catheterising Sheath (B) size 13½ French Catheter Gauge, forward-oblique vision Telescope (C), Switch, and rubber-covered Cables, one X-ray Opaque Ureteric Catheter and one Spare Lamp, in polished mahogany case .. complete

U1380 Ditto .. for Examining and Double Catheterising, exactly as above, but with Double Catheterising Sheath (D) size 14½ French Catheter Gauge, Telescope (C) and two X-ray Opaque Ureteric Catheters, in polished mahogany case, complete

*U1381 Spare Lamps for above, 3·5 volts .. .. each

The Sheaths of this instrument have a working length of 4¾ in. and are provided with two irrigating connections with tap.

**When ordering please state reference number on lamp plate inside lid of case.*



U1382

Cat. No.

U1382 McCARTHY'S PAN-ENDOSCOPE, consisting of: forward-oblique vision Telescope with Single and Double Catheterising Attachments, Sheath size 24 French Catheter Gauge with Obturator, Switch and rubber-covered Cables, one Spare Lamp and Cleaning Rod, in polished mahogany case (*Ball and Knife Electrodes not included*) .. .. complete

U1382A Ditto .. with additional Sheath size 20 French Catheter Gauge and Obturator complete

*U1383 Spare Lamps, 3·5 volts .. .. each

U1384 McCARTHY'S KNIFE ELECTRODE, for use with above .. each

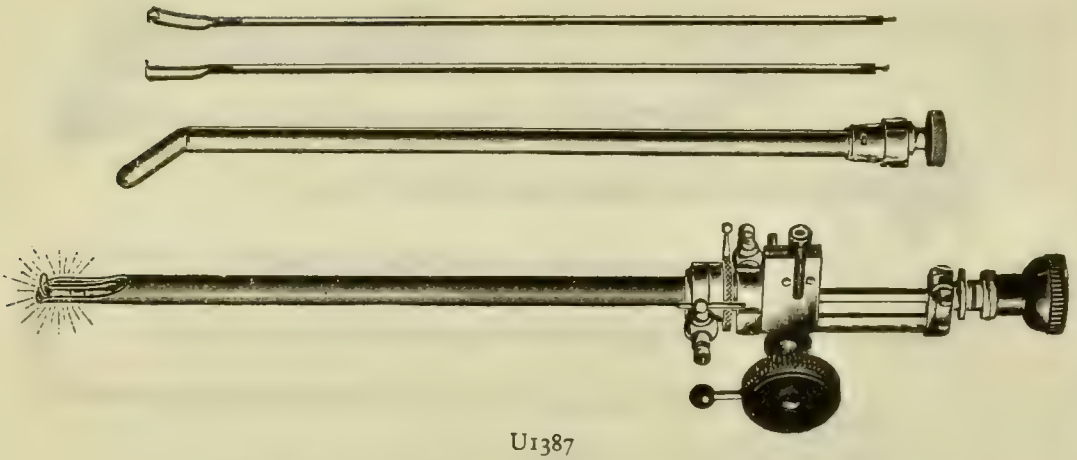
U1385 McCARTHY'S BALL ELECTRODE, for use with above .. .. each

U1386 DIATHERMY CABLE, for use with above .. .. .. each

**When ordering please state reference number on lamp plate inside lid of case.*

UROLOGICAL INSTRUMENTS

McCARTHY'S VISUAL PROSTATIC ELECTROTOME



U1387

Cat. No.

U1387 McCARTHY'S VISUAL PROSTATIC ELECTROTOME, consisting of: forward-oblique vision Telescope, Sheath size 28 French Catheter Gauge, Obturator, Loop Electrode Carrier with three Cutting Loops and one Coagulating Electrode, one Spare Lamp, Switch and rubber-covered Cables, Diathermy Cables, Spigot, Cleaning Rod, in polished mahogany case .. .. complete

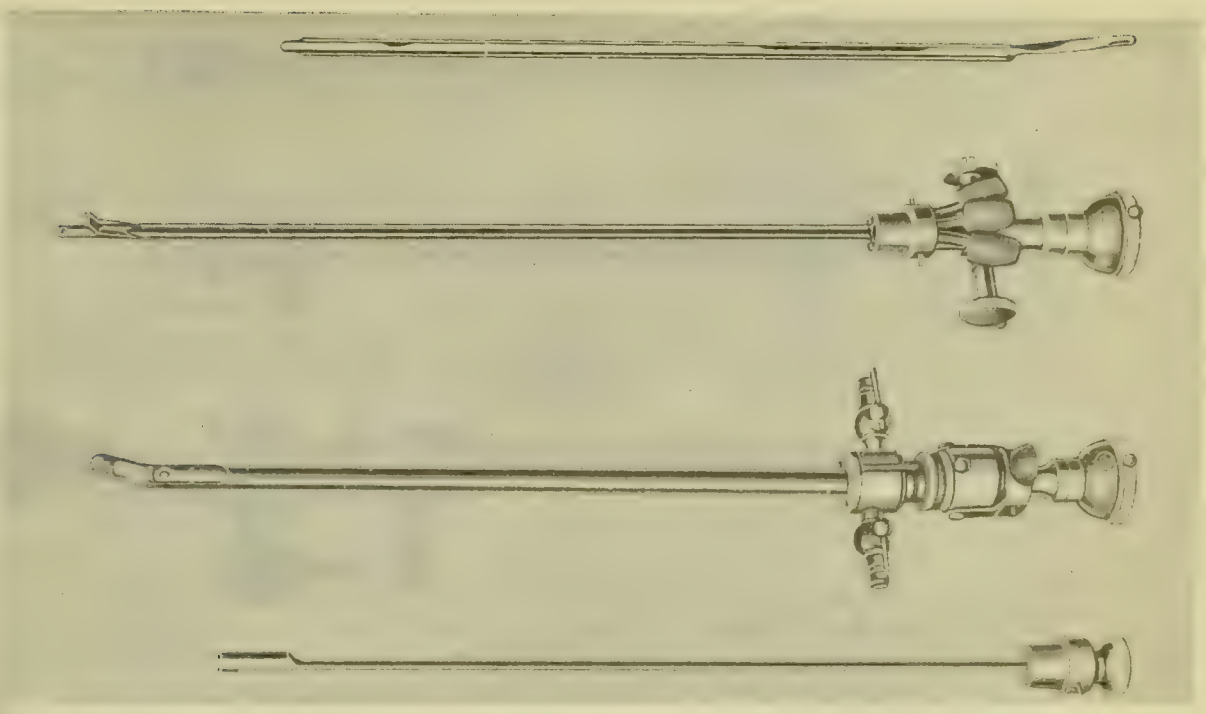
U1388 Ditto .. but with Sheath size 26 French Catheter Gauge .. .. complete

U1389 Spare Loops .. .. each

*U1390 Spare Lamps, 3·5 volts .. .. each

The Sheath of this instrument is insulated for use with cutting and coagulating loops. The latter, controlled by a handwheel with rack and pinion movement, have a longitudinal travel of one inch; during the excursion of the loop, the telescope remains stationary.

**When ordering please state reference number on lamp plate inside lid of case.*



U1391

Cat. No.

U1391 MILLIN'S CONVERTIBLE CYSTO-URETHROSCOPE, consisting of: Sheath for operating, catheterising and examining, size 21½ French Catheter Gauge fitted with rotating Irrigating Taps, Obturator, wide-angle vision Examining Telescope, Convertible Telescope for operating and double Catheterising with removable fin, two X-ray opaque ureteric Catheters, Catheter Clip, one Spare Lamp, Switch and rubber-covered Cables, six each plain and perforated Rubber Caps, Spigot and Cleaning Rod, in polished mahogany case .. .. complete

U1392 Ditto .. but with Sheath size 23 French Catheter Gauge .. complete

*U1393 Spare Lamps, 3·5 volts .. .. each

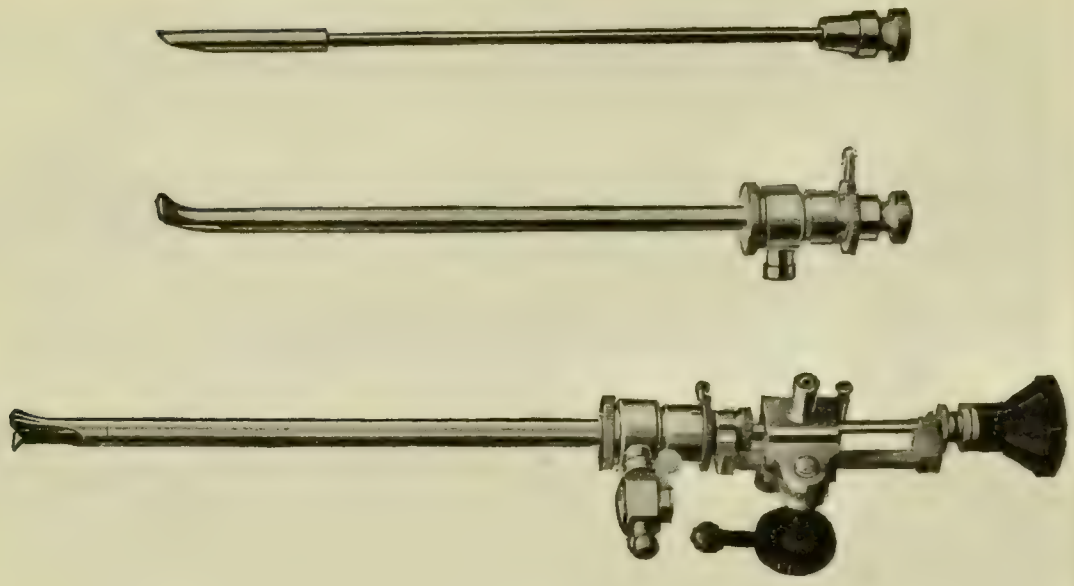
In this instrument all procedures are carried out through one sheath. The operating sheath has a removable fin to enable it to be readily converted from a double to a single catheterising or operating instrument; this provides a channel to admit operating instruments up to size 10 French Catheter Gauge (Forceps, Scissors, etc., see page U235).

The Examining Telescope has a wide-angle lens system which gives a wide field of view and also assists in examination of the posterior urethra.

**When ordering please state reference number on lamp plate inside lid of case.*

UROLOGICAL INSTRUMENTS

MILLIN'S PROSTATIC RESECTOSCOPE



U1394

Cat No.

U1394 MILLIN'S PROSTATIC RESECTOSCOPE, consisting of: forward-oblique vision Telescope, two Sheaths, sizes 26 and 28 French Catheter gauge, with Obturator and rotating two-way Irrigating Tap, three each two sizes Cutting Loops and one Coagulating Electrode, high frequency Diathermy Cable, Spigot, Cleaning Rod, one pair Grasping Forceps and Dissecting Forceps, Switch and rubber-covered Cables and one Spare Lamp, in polished mahogany case .. complete

U1395 Spare Electrodes .. .. each

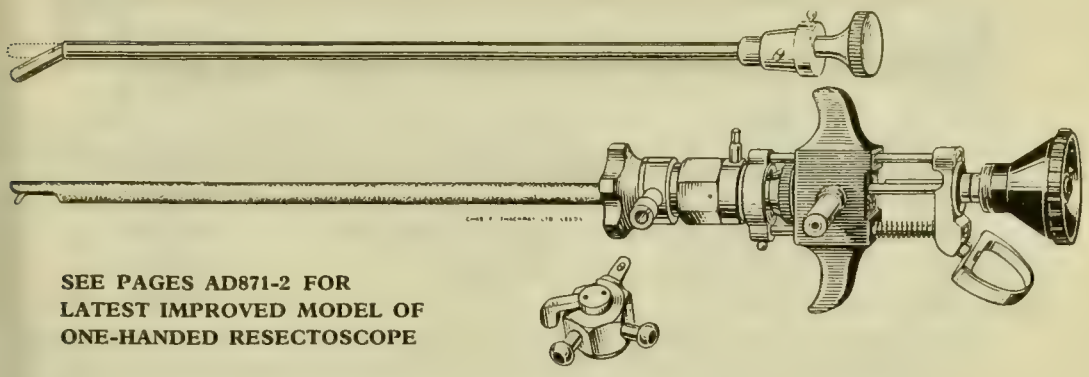
*U1396 Spare Lamps, 3·5 volts .. .. each

As with the McCarthy Electrotome, this instrument is provided with insulated Sheaths, the loops being activated by handwheel and rack and pinion movement to give a horizontal travel of one inch.

It is an improvement on the Canny Ryall Resectoscope, in which the telescope moves simultaneously with the cutting and coagulating loops during their excursion, so that they are under continuous visual control. In this present instrument, the telescope can either be locked in a fixed position (as in the original McCarthy Electrotome) or moved with the cutting or coagulating loop (as in the Canny Ryall Resectoscope).

Further refinements are the rotating two-way irrigating tap and the deflector in the beak which places the loop well behind the obstructing tissue at the commencement of the cut.

**When ordering please state reference number on lamp plate inside lid of case.*



SEE PAGES AD871-2 FOR LATEST IMPROVED MODEL OF ONE-HANDED RESECTOSCOPE

U1397

Cat. No.

U1397 NESBIT'S RESECTOSCOPE, DANIEL'S MODIFICATION, consisting of: insulated Sheath, size 26 French Catheter Gauge with rotating Irrigating Connection and Tap, Articulated Obturator, Cleaning Rod, forward-oblique vision Telescope, three Cutting Loops, Coagulating Electrode, Diathermy Cable, Switch and rubber-covered Cables, one Spare Lamp, in mahogany case .. .. complete

U1397A Ditto .. but with Sheath size 28 French Catheter Gauge .. complete

*U1398 Spare Lamps, 3·5 volts .. .. each

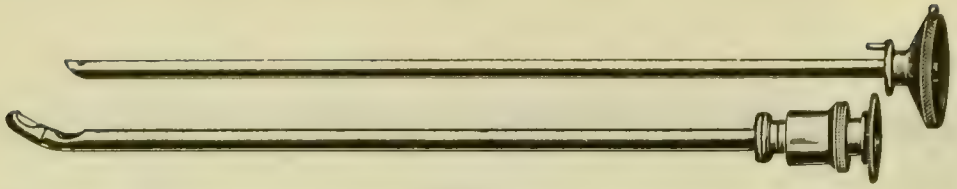
This is a one-handed instrument; as will be seen from the illustration, there is a loop for the thumb and two lugs for the first and second finger of the same hand. When the two shaped lugs are brought together towards the thumb, the cutting loop or coagulating electrode is withdrawn inside the sheath, and the spring is compressed against the thumb ring; consequently, the operating mechanism will return automatically to its forward position for the next cut. The use of a single-handed instrument of this type leaves the other hand of the operator free to palpate the prostate per rectum and the use of the O'Conor Drape (see page U237) for this purpose ensures the sterility of the surgeon's hands.

*U1400 Spare Lamps, 3·5 volts .. .. each

†*Designed for removal of prostatic obstruction in children, as suggested by and made for Mr. Ashton Miller, F.R.C.S., Urological Surgeon, Bristol United Hospitals.*

**When ordering please state reference number on lamp plate inside lid of case.*

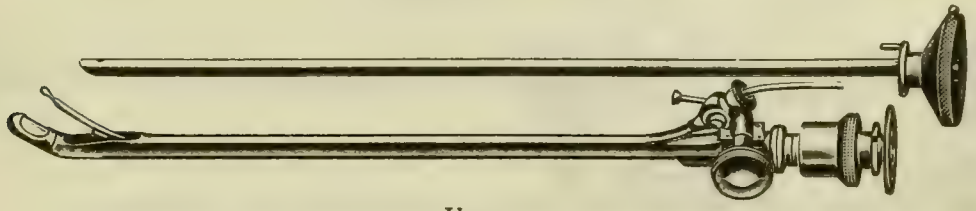
RINGLEB'S CYSTOSCOPES



U1401

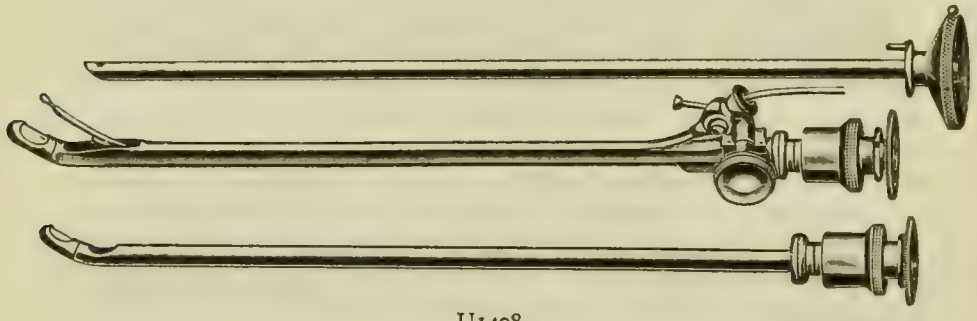
Cat. No.

U1401 RINGLEB'S CYSTOSCOPE, for examination and irrigation, 21 French Catheter Gauge, complete with Telescope, Spare Lamp, Irrigating Nozzle, rubber-covered Cables and Spare Rubber Washers, in polished mahogany case .. complete
U1402 Ditto .. 18 French Catheter Gauge .. .. complete
U1403 Ditto .. 15 French Catheter Gauge, for children .. .. .. complete
*U1404 Spare Lamps, 3·5 volts .. .. each



U1405

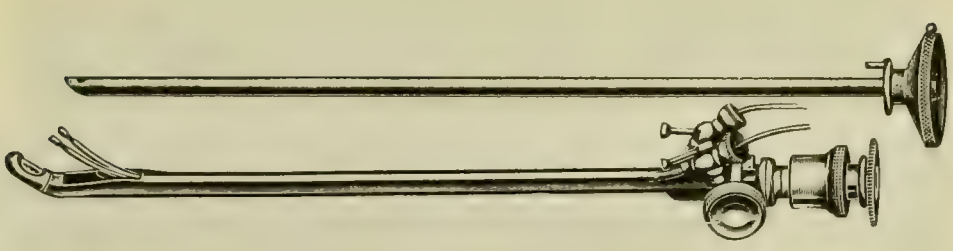
U1405 RINGLEB'S CYSTOSCOPE, for Single Catheterisation and Irrigation, 22 French Catheter Gauge, complete with Telescope, Spare Lamp, Irrigating Nozzle, rubber-covered Cables and Spare Rubber Washers, in polished mahogany case, complete
U1406 Ditto .. 17 French Catheter Gauge, for children .. .. .. complete
*U1407 Spare Lamps, 3·5 volts .. .. each



U1408

U1408 RINGLEB'S CYSTOSCOPE, combined set for examination, irrigation and Single Catheterisation, complete with 22 French Catheter Gauge Catheterisation Sheath, 18 French Catheter Gauge Examination Sheath, Universal Telescope, two Spare Lamps, Irrigating Nozzle, rubber-covered Cables and Spare Rubber Washers, in polished mahogany case .. .. complete
U1409 Ditto .. with 17 French Catheter Gauge Catheterisation Sheath and 15 French Catheter Gauge Examination Sheath, for children .. .. .. complete
*U1410 Spare Lamps, 3·5 volts .. .. each

**When ordering please state reference number on lamp plate inside lid of case.*



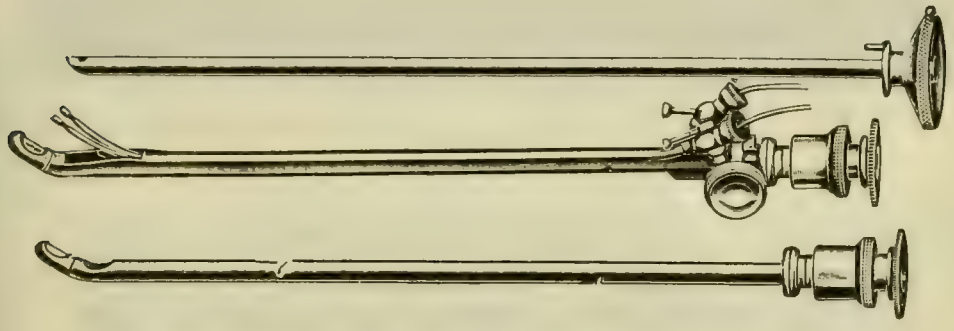
U1411

Cat. No.

U1411 RINGLEB'S CYSTOSCOPE, for Double Catheterisation and Irrigation, 22 French Catheter Gauge, complete with Telescope, Spare Lamp, Irrigating Nozzle, rubber-covered Cables and Spare Rubber Washers, in polished mahogany case, complete

U1412 Ditto .. 18 French Catheter Gauge, for children .. .. .. complete

*U1413 Spare Lamps, 3·5 volts .. .. each



U1414

U1414 RINGLEB'S CYSTOSCOPE, combined set for examination, irrigation and Double Catheterisation, complete with 22 French Catheter Gauge Double Catheterisation Sheath, 18 French Catheter Gauge Examination Sheath, Universal Telescope, two Spare Lamps, Irrigation Nozzle, rubber-covered Cables and Spare Rubber Washers, in polished mahogany case .. .. complete

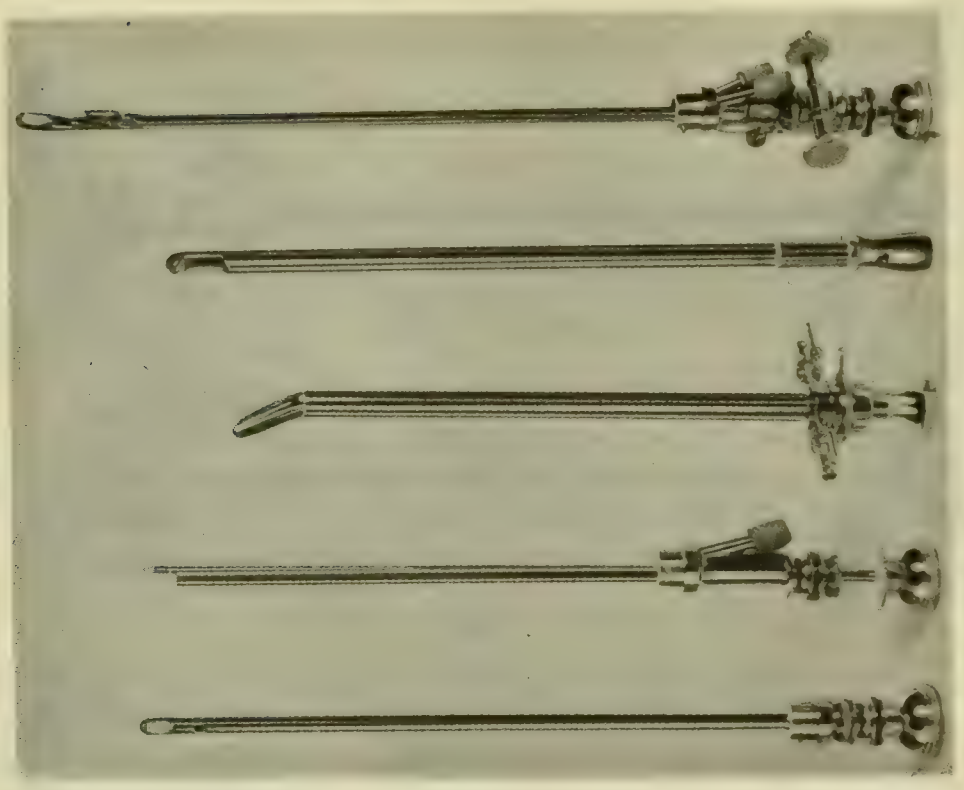
U1415 Ditto .. with 18 French Catheter Gauge Double Catheterisation Sheath and 15 French Catheter Gauge Examination Sheath, for children .. .. complete

*U1416 Spare Lamps, 3·5 volts .. .. each

* *When ordering please state reference number on lamp plate inside lid of case.*

UROLOGICAL INSTRUMENTS

CANNY RYALL'S UNIVERSAL CYSTO-URETHROSCOPE



U1418A

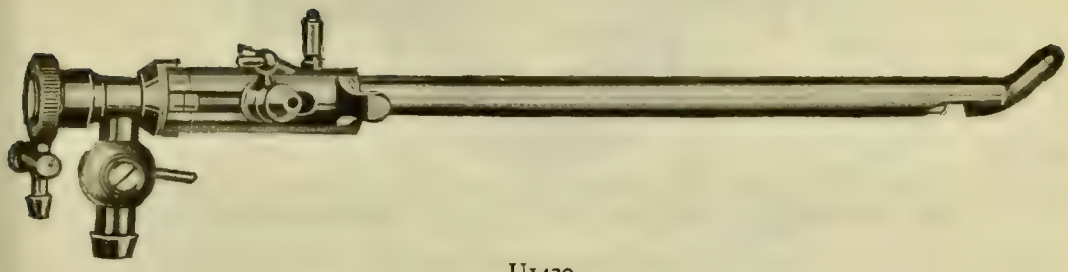
Cat. No.		£ s. d.
U1417A	CANNY RYALL'S CYSTO-URETHROSCOPE, Universal Model, 24 French Catheter Gauge, consisting of: Universal Sheath with Articulated Obturator, Examining Telescope (complete in itself as a No. 18 French Catheter Gauge Examining Cystoscope), Operating Telescope, Fin for Double Catheterisation, Fin for Single Catheterisation, Flexible Guide for small Electrodes, Direct Vision Telescope and Light Carrier, Operating Channel and Evacuating Cannula. In polished mahogany case with Irrigating Nozzle, rubber-covered Cables and three Spare Lamps .. .. complete	
U1418A	Ditto .. but with 28 French Catheter Gauge Sheath .. .. complete	
*U1419	Spare Lamps, 3·5 volts .. .. each	

The above combination sets of instruments comprises a complete armamentarium for the Urologist. Through the one Operating Sheath (size 24 or 28 French Catheter Gauge), every operation and examination in the bladder and urethra can be carried out. Instruments such as grasping forceps, scissors, dilating forceps (see page U235) and diathermy electrodes up to size 10 or 15 French Catheter Gauge respectively, may be employed. The instrument is fully described in "Operative Cystoscopy", by the late E. Canny Ryall, F.R.C.S.

* *When ordering please state reference number on lamp plate inside lid of case.*

THOMPSON'S DIRECT FULL-VISION RESECTOSCOPE

(Prostatic Punch)



U1420

Cat. No.

U1420 THOMPSON'S PROSTATIC PUNCH, sheath with obturator, 30 French Catheter Gauge, Knife Cannula with two Detachable Blades, Coagulating Electrodes, Diathermy Cable, Aspirating Nozzle, Switch and rubber-covered Cables, in polished mahogany case .. .. complete

U1421 Ditto .. but size 27 French Catheter Gauge .. .. .. complete

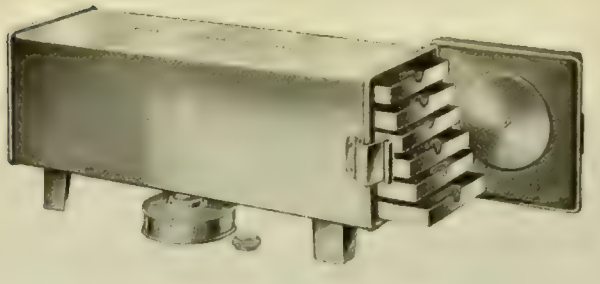
*U1422 Spare Lamps, 3·5 volts .. .. each

The Thompson Prostatic Punch is made in two sizes : 27 and 30 French Catheter Gauge. The knife cannula which also carries the water inlet tap is fitted with a detachable steel blade. The inlet tap also serves as the thumb grip during the punching operation and is strengthened to meet this strain.

The large bore drainage tap makes it possible to flush out most of the resected tissue without removing the observation window. A coagulating electrode is carried in a separate channel within the sheath ; when advanced it is deflected to bring the tip into the field of vision ready for immediate use.

A bubble eliminator is fitted to the observation window so that with a slight pressure on the plunger the air bubble is removed.

* *When ordering please state reference number on lamp plate inside of the lid.*



U1424

Cat. No.

U1423 CATHETER STERILIZER, FORMALIN, with three perforated trays and one plain tray, nickel plated. Size: 16 in. by 3 in. by 3 in., complete with spirit burner each

U1424 Ditto .. but with five perforated trays and one plain tray. Size: 16 in. by 5 in. by 5 in. .. .. each

U1425 FORMALIN TABLETS, for above .. .. per 50
per 100



U1426

†U1426 "MINVAC" ELECTRIC PORTABLE SUCTION PUMP, for continuous operation, complete with 4-pint glass drainage bottle, 2-way metal connection and tubing. Mounted on cream enamelled wooden base board with chromium plated carrying handle and bottle clip .. .. complete

Please state Voltage when ordering.

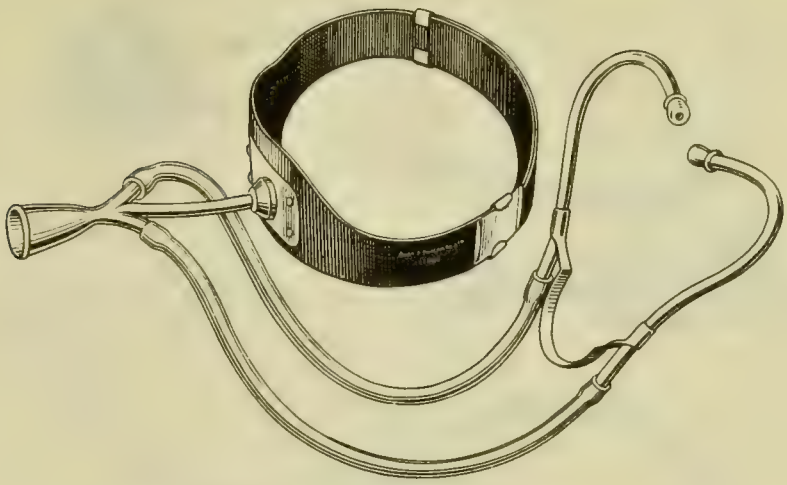
U1427 Spare Drainage Bottles for above .. .. each

This pump is for use in hospital wards for slow, continuous or intermittent supra-pubic drainage of the bladder, intestines, etc. Totally enclosed and *silent* in use, the motor will work continuously as it is operated by electro-magnetic force.

Suitable for use on Alternating Current only.

NOTE.—Diathermy Machines and Accessories: please see separate section of catalogue.

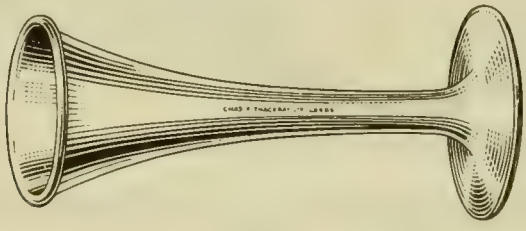
†*See also page* E 830.



M1428

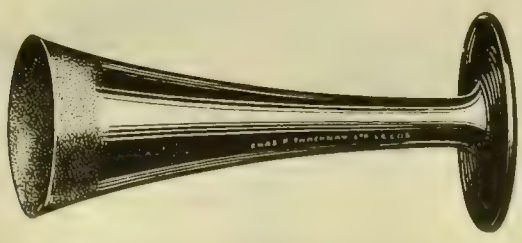
Cat. No.

M1428 DE LEE-HILLIS' FŒTAL STETHOSCOPE, with adjustable headband, chromium plated chestpiece and headframe, complete with rubber tubing, each



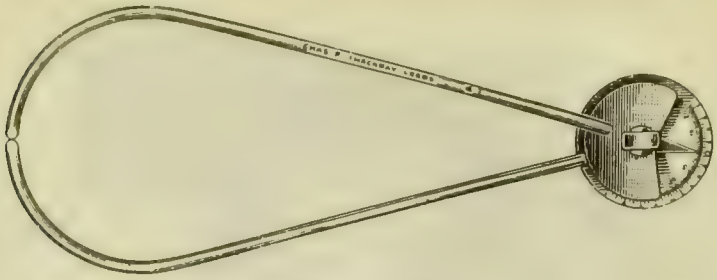
M1429

M1429 PINARD'S FŒTAL STETHOSCOPE, cast aluminium .. .. each



M1430

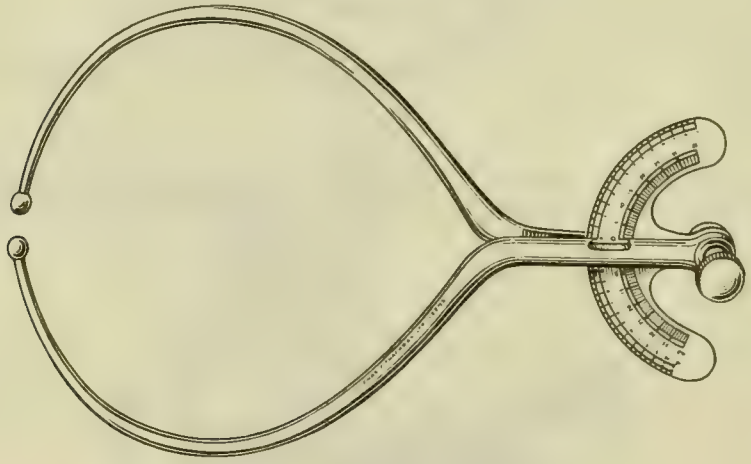
M1430 PINARD'S FŒTAL STETHOSCOPE, vulcanite, with rubber end each



M1431

Cat. No.

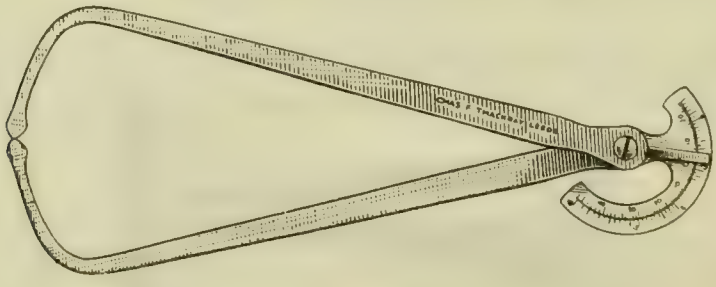
M1431 SIMPLE PATTERN PELVIMETER, external, graduated in inches and metric scale, chromium plated .. .. each



M1433

M1433 BREISKY'S PELVIMETER, internal and external, graduated in inches and metric scale, chromium plated .. .. each

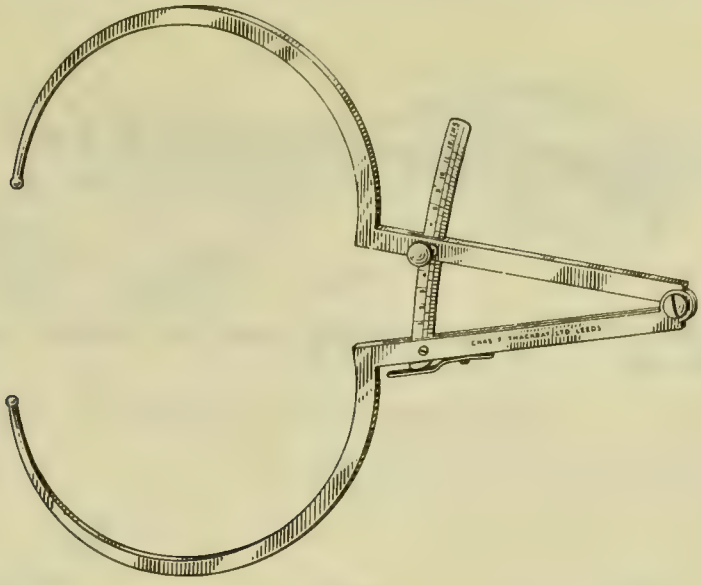
The wide curve of arms makes this instrument particularly useful for obese patients.



M1434

M1434 COLLIN'S PELVIMETER, internal and external, graduated in inches and metric scale, chromium plated .. .. each

M1434A Ditto .. stainless steel .. .. each



M1435

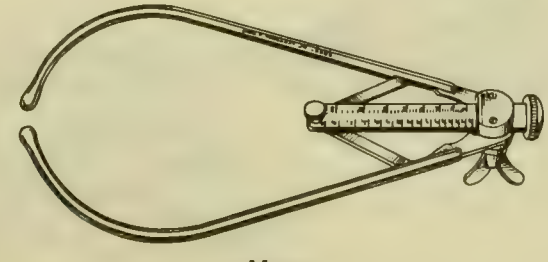
Cat. No.

M1435 DUNCAN'S PELVIMETER, external, graduated in inches and metric scale, chromium plated .. .. each



M1436

M1436 MARTIN'S PELVIMETER, external, graduated in inches and metric scale, chromium plated .. .. each



M1437

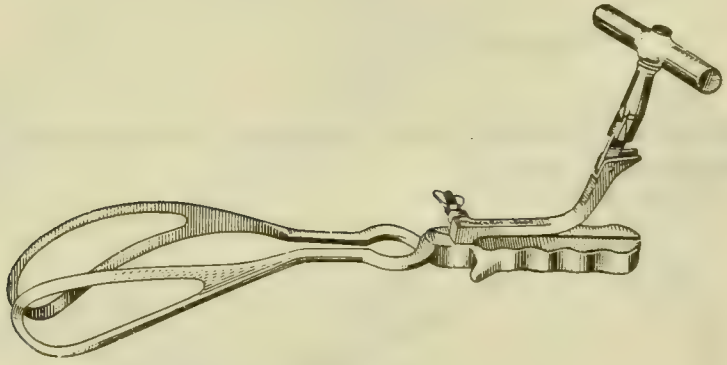
M1437 SLIDE-SCALE PELVIMETER, external, graduated in inches and metric scale, chromium plated .. .. each



M1438

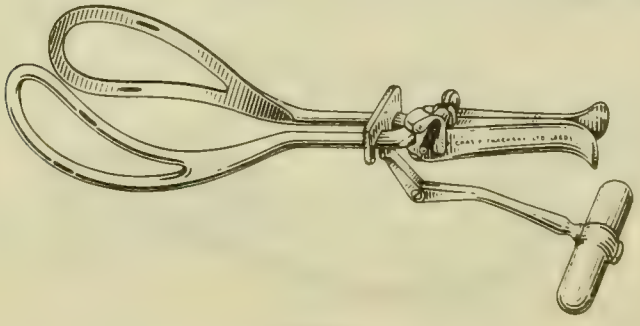
Cat. No.

M1438 ANDERSON'S MIDWIFERY FORCEPS (Barnes', with Simpson's handles), stainless steel .. .. each



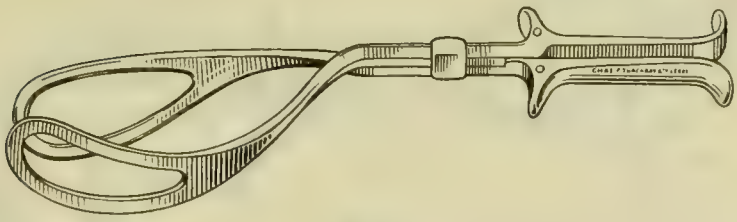
M1439

M1439 BARNES-NEVILLE'S MIDWIFERY FORCEPS (Simpson's handles), with detachable axis traction rod and handle, stainless steel .. .. each



M1440

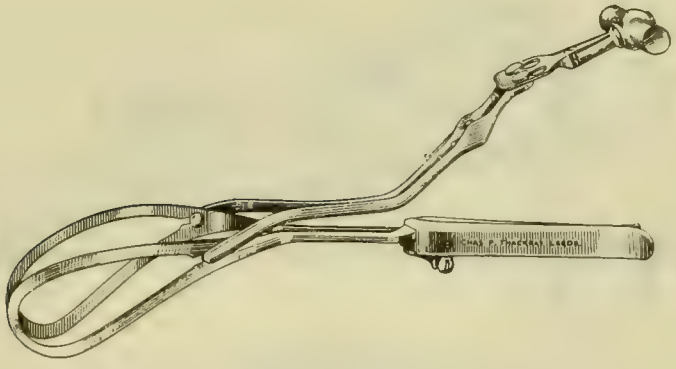
M1440 HAIG FERGUSON'S MIDWIFERY FORCEPS with detachable axis traction rod and handle, slots in blades for tape, stainless steel .. .. each



M1441

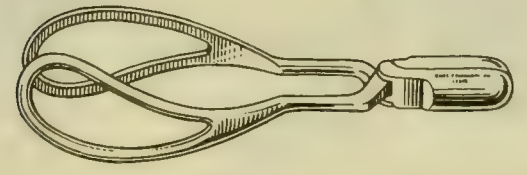
Cat. No.

M1441 KIELLAND'S MIDWIFERY FORCEPS, stainless steel .. .. each



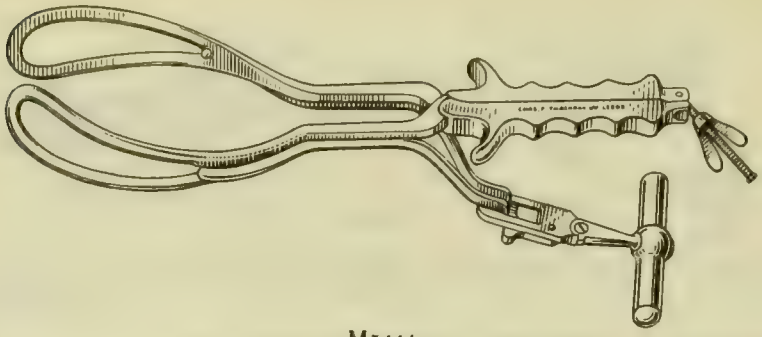
M1442

M1442 MILNE MURRAY'S MIDWIFERY FORCEPS with detachable axis traction rods and handle, stainless steel .. .. each



M1443

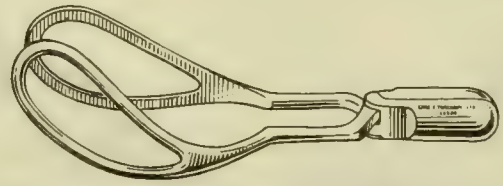
M1443 SIMPSON'S MIDWIFERY FORCEPS, short, stainless steel .. each



M1444

Cat. No.

M1444 WILLIAMSON'S MIDWIFERY FORCEPS (Simpson's handles), with detachable axis traction rods and handle, stainless steel .. .. each



M1445

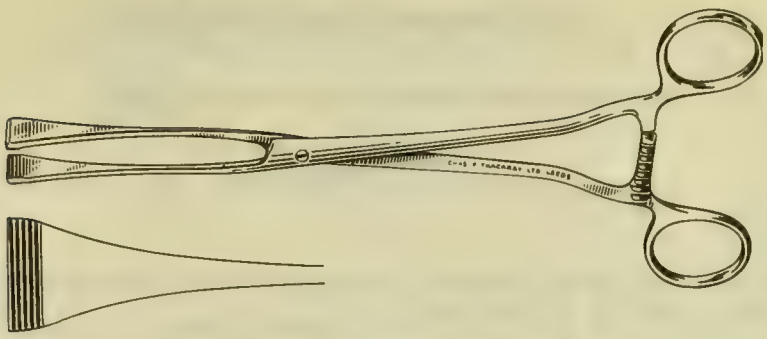
M1445 WRIGLEY'S MIDWIFERY FORCEPS, short, for lower delivery, stainless steel, each



M1446

M1446 LAPTHORN-SMITH'S "OBSTETRIC HELPER", strong webbing, complete in khaki pouch .. .. each

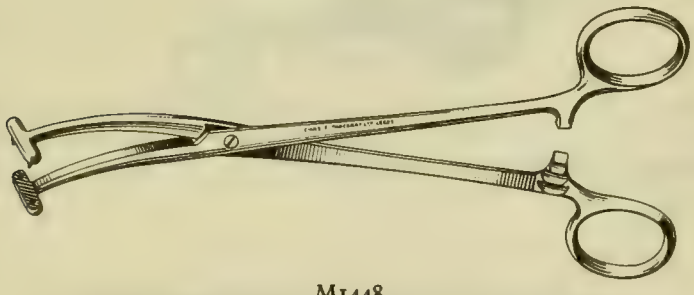
See also page U188.



M1447

Cat. No.

M1447 GREEN-ARMYTAGE'S HÆMOSTASIS FORCEPS, for use in lower segment Cæsarean section, screw joint, 8¾ in., stainless steel .. .. .. each

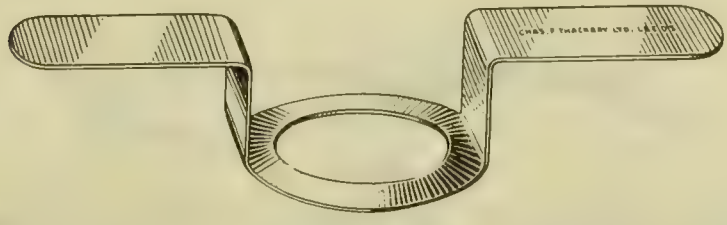


M1448

M1448 WILLETT'S PLACENTA PRÆVIA FORCEPS, screw joint, 7½ in., stainless steel .. .. each

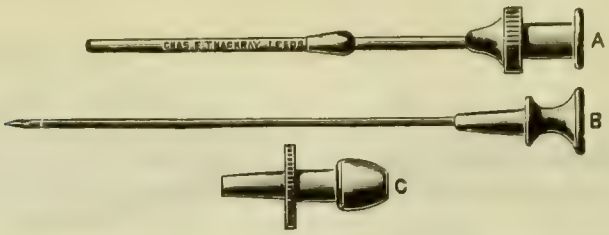
M1449 Ditto .. 10 in. .. .. each

M1450 Ditto .. 12 in. (Bethel Solomons') .. .. each



M1451

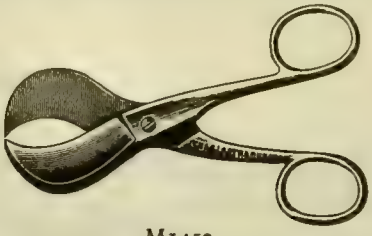
M1451 BONNEY'S UTERINE COMPRESSOR, stainless steel .. .. each



M1452

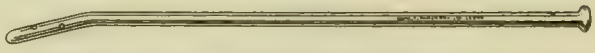
Cat. No.

M1452 CURRIE'S TROCAR and CANNULA, for removal of retained placenta by injection into the umbilical vein, chromium plated .. .. .. each
After introduction into the vein, the cannula (A) is tied in position. The nozzle (C) (attached to an ordinary Higginson's Syringe) is then plugged into it and the injection slowly carried out.



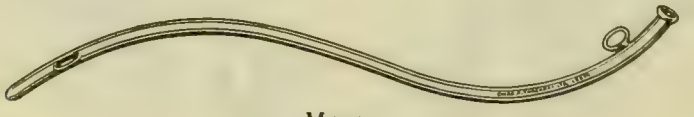
M1453

M1453 UMBILICAL SCISSORS, 4 in., stainless steel .. .. .. each



M1454

M1454 FEMALE CATHETER, glass, five sizes: 6, 7, 8, 9 and 10 English Catheter Gauge .. .. each
M1455 Ditto .. metal, chromium plated, with stilette .. .. .. each
M1456 Ditto .. solid silver, with stilette .. .. each



M1457

M1457 ROTUNDA HOSPITAL PATTERN FEMALE CATHETER, with stilette, chromium plated, size 8 English Catheter Gauge .. .. .. each

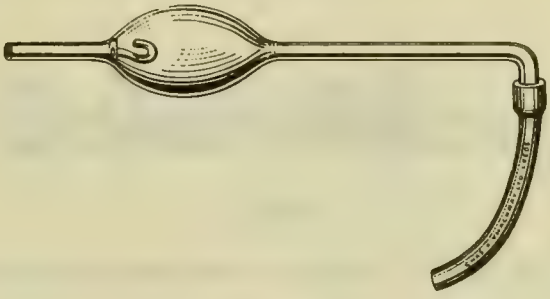
NOTE.—Catheter Gauges: page U194.



M1458

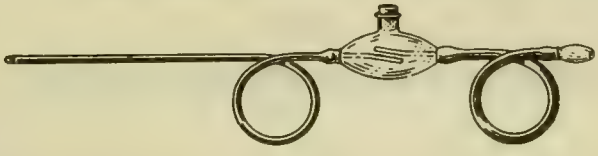
Cat. No.

M1458 GIBSON'S MUCUS CATHETER, glass, with connecting rubber .. each



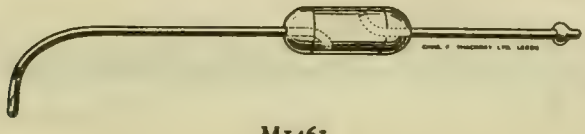
M1459

M1459 QUEEN CHARLOTTE'S HOSPITAL PATTERN MUCUS CATHETER, glass, with rubber tube .. .. each



M1460

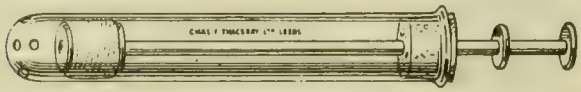
M1460 MUCUS CATHETER, with glass safety chamber, glass mouthpiece, connecting rubber and catheter .. .. each



M1461

M1461 CARTON-COWELL'S MUCUS CATHETER, with lateral holes, chromium plated .. .. each

M1462 Ditto .. with terminal hole .. .. each



M1463

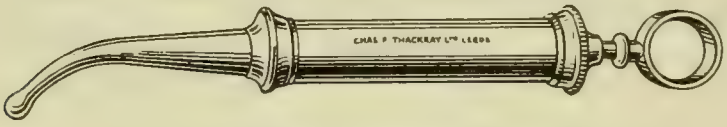
Cat. No.

M1463 FEMALE SYRINGE, glass, with cotton plunger, capacity: ½ oz., 1 oz., 2 oz., 3 oz. and 4 oz. .. .. each



M1464

M1464 GLYCERINE SYRINGE, vulcanite, with glass barrel and leather plunger, capacity: 1 oz. and 2 oz. .. .. each



M1465

M1465 GLYCERINE SYRINGE, all metal, chromium plated, capacity: ½ oz. .. each



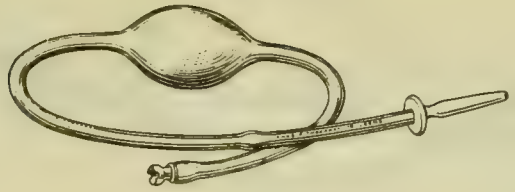
M1466



M1467

M1466 VAGINAL PIPE, curved, glass .. .. each

M1467 Ditto .. straight .. .. each



M1468

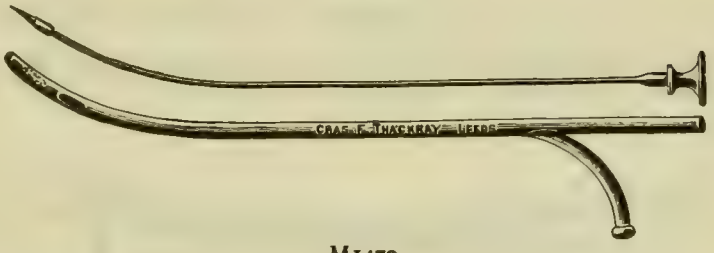
Cat. No.

M1468 HIGGINSON'S SYRINGE, rubber, with bone pipe .. .. each



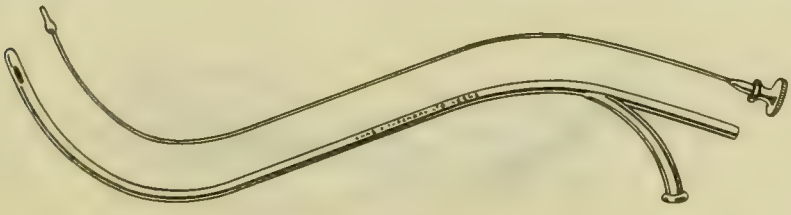
M1469

M1469 VAGINAL PIPE, for Higginson's Syringe, rubber .. .. each



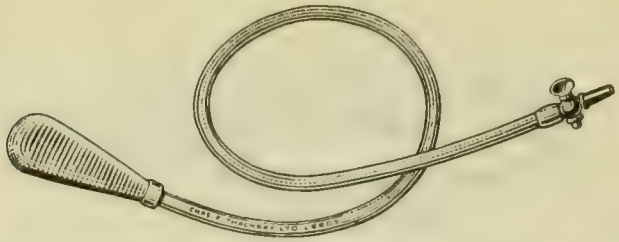
M1470

M1470 CURRIE'S INDUCTION CATHETER, with stilette, for perforation of the membrane, chromium plated .. .. each



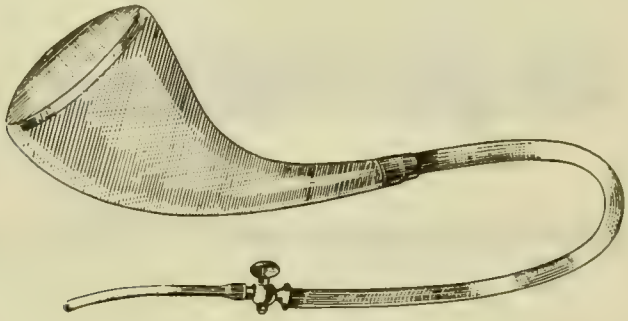
M1471

M1471 DREW SMYTHE'S INDUCTION CATHETER, with stilette, for perforation of the membrane, chromium plated .. .. each



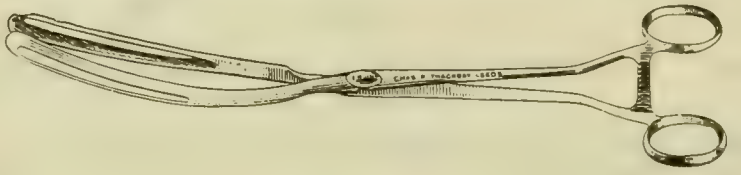
M1472

Cat. No.
M1472 TAYLOR'S HYDROSTATIC BAG, rubber, with vulcanite stopcock .. each



M1473

M1473 CHAMPETIER DE RIBES' DILATING BAG, rubber, with vulcanite stopcock, three-sizes: 8, 14 and 20 oz. .. .. each



M1474

M1474 INTRODUCING FORCEPS for Champetier de Ribes' bags, take-off joint, 12 in., stainless steel .. .. each



M1475

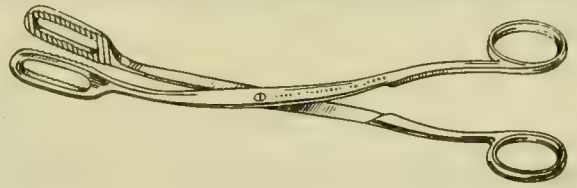
M1475 LAWSON TAIT'S PERINEORRHAPHY SCISSORS, angled laterally, 5 in., stainless steel .. .. each



M1476

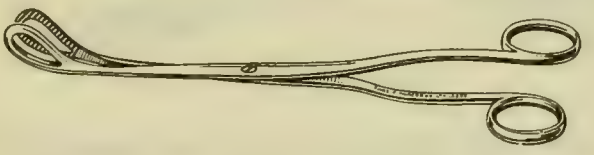
Cat. No.

M1476 GREENHALGH'S OVUM FORCEPS, screw joint, 9½ in., stainless steel each



M1477

M1477 McCANN'S OVUM FORCEPS, screw joint, 9½ in., stainless steel .. each



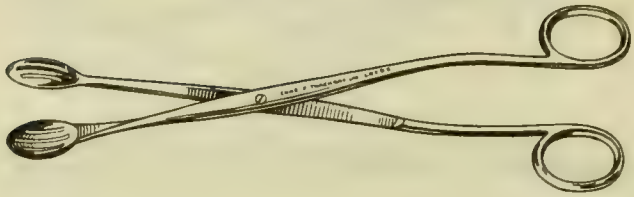
M1478

M1478 McCLINTOCK'S OVUM FORCEPS, screw joint, 9½ in., stainless steel each



M1479

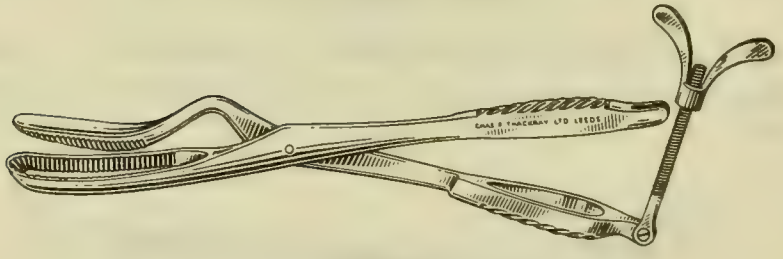
M1479 RABAGLIATI'S OVUM FORCEPS, screw joint, 9½ in., stainless steel each



M1480

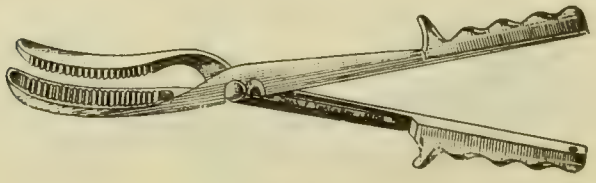
Cat. No.

M1480 HEYWOOD SMITH'S OVUM FORCEPS, screw joint, 10½ in., stainless steel, each



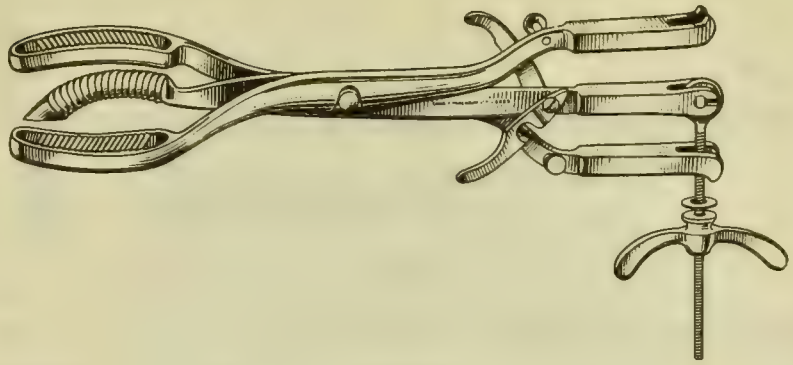
M1481

M1481 BARNE'S CRANIOTOMY FORCEPS, take-off joint, stainless steel each



M1482

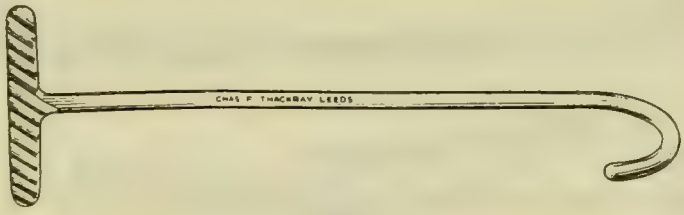
M1482 SIMPSON'S CRANIOTOMY FORCEPS, take-off joint, stainless steel each



M1483

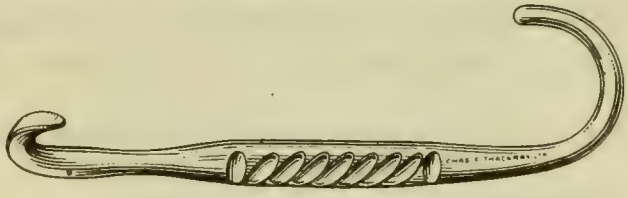
Cat. No.

M1483 WINTER'S CRANIOCLAST AND CEPHALOTRIBE, take-off joint, stainless steel .. .. each



M1484

M1484 TARGETT'S BLUNT HOOK, stainless steel .. .. .. each



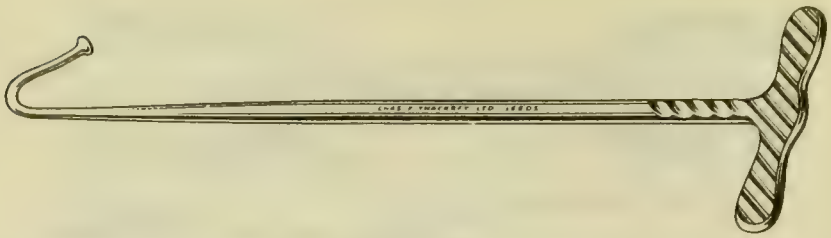
M1485

M1485 BLUNT HOOK AND CROTCHET, stainless steel .. .. each



M1486

M1486 DOUBLE BLUNT HOOK, stainless steel .. .. .. each



M1487

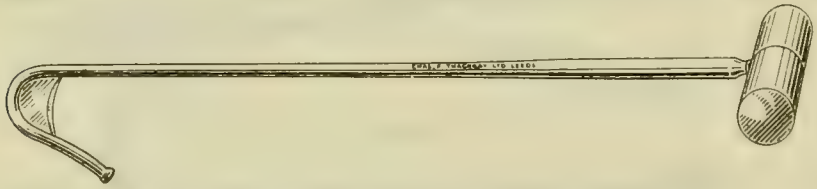
Cat. No.

M1487 BRAUN'S DECAPITATING HOOK, stainless steel .. .. each



M1488

M1488 GALABIN'S DECAPITATING HOOK, stainless steel .. .. each



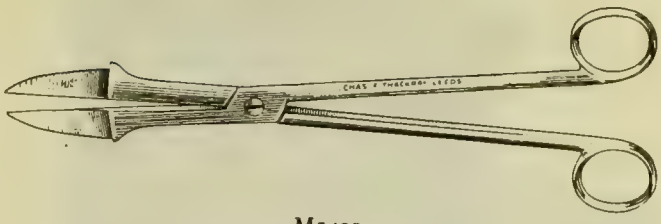
M1489

M1489 JARDINE'S DECAPITATING HOOK, stainless steel, chromium plated handle each



M1490

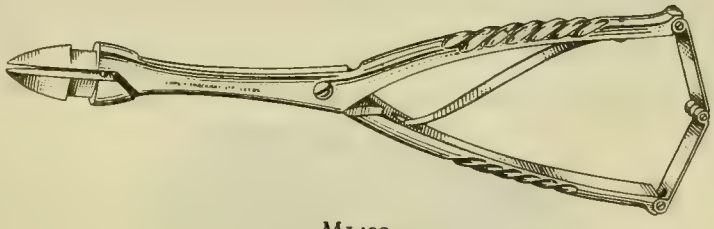
M1490 RAMSBOTHAM'S DECAPITATING HOOK, stainless steel, chromium plated handle .. .. each



M1491

Cat. No.

M1491 DENMAN'S PERFORATOR, with straight blades, screw joint, 10 in., stainless steel .. .. each



M1492

M1492 SIMPSON'S PERFORATOR, with straight blades, screw joint, 11¼ in., stainless steel .. .. each

M1493 Ditto .. with curved blades .. .. each



M1494

M1494 QUEEN CHARLOTTE'S HOSPITAL PATTERN EMBRYOTOMY SCISSORS, curved-on-flat, 12 in., stainless steel .. .. .. each



M1495

Cat. No.

M1495 MIDWIFERY or SURGICAL KIT BAG, with compartment at base for sterilizer (*not* included), and rack *with* bottles (included); complete with white, detachable, washable lining fitted with loops for instruments. Size: 18 in. long. Long grain real hide, black or brown .. .. each

M1496 Spare Linings for above .. .. each

M1497 Sterilizer for above, with stand and spirit burner, nickel plated .. each

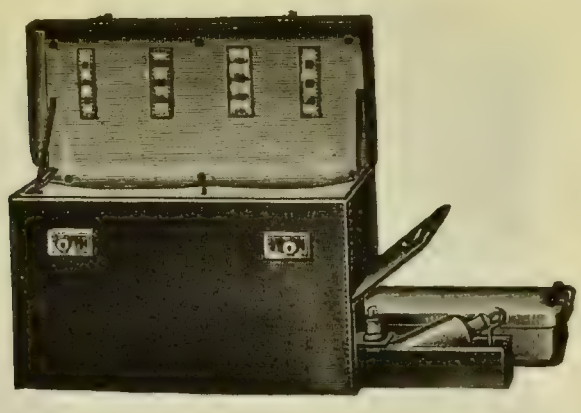


M1498

M1498 MIDWIFERY or SURGICAL KIT BAG, with compartment at base for sterilizer (*not* included), complete *with* bottles and white, detachable, washable lining fitted with loops for bottles and instruments. Size: 18 in. long. Long grain real hide, black or brown .. .. each

M1499 Spare Linings for above .. .. each

M1500 Sterilizer for above, with stand and spirit burner, nickel plated .. each



M1501

Cat. No.

M1501 MIDWIFERY CASE, with compartment at base for sterilizer (*not* included) and rack *with* bottles (included); complete with white, detachable, washable lining fitted with loops for instruments. Size: 18⅜ in. by 7¾ in. by 10¼ in. †Long grain real hide, black or brown .. .. each

M1502 Spare Linings for above .. .. each

M1503 Sterilizer for above, with stand and spirit burner, nickel plated .. each



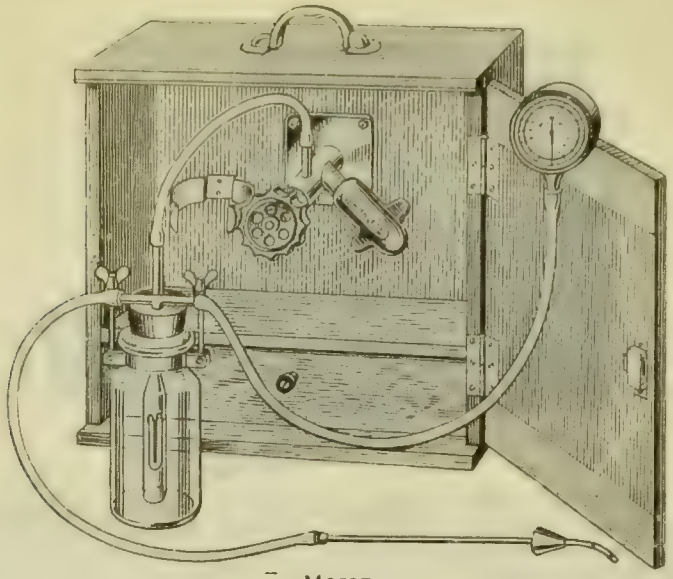
M1504

M1504 MIDWIFERY CASE, with compartment at base for sterilizer (*not* included); complete with white, detachable, washable lining fitted with loops for bottles (*not* included). Size: 18½ in. by 10¾ in. by 6½ in. †Long grain real hide, black or brown, each

M1505 Spare Linings for above .. .. each

M1506 Sterilizer for above, with stand and spirit burner, nickel plated .. each

†*Plain smooth hide can be supplied at extra cost.*



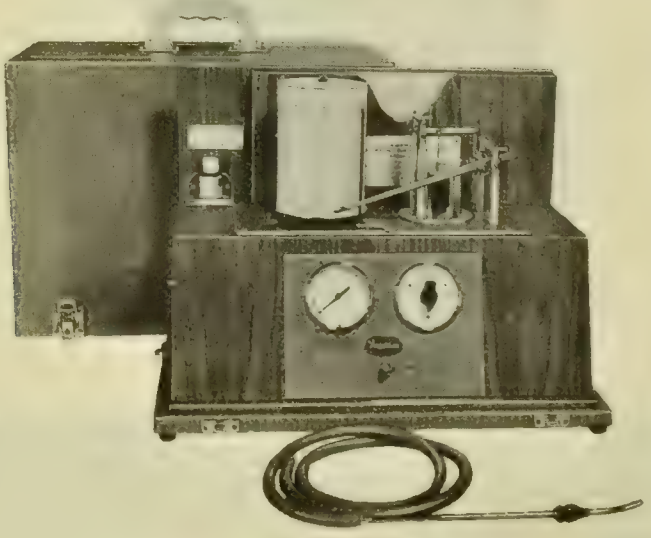
M1507

Cat. No.

M1507 PROVIS' TUBAL INFLATION APPARATUS, consisting of: regulating valve for Sparklets bulb, glass bottle and volumeter, aneroid manometer and chromium plated uterine tube, complete with fittings, rubber tubing, spare volumeter and twelve CO_2 Sparklets bulbs, in polished mahogany case .. complete

M1508 Spare Glass Volumeters .. .. each

M1509 Sparklets Bulbs, CO_2, in boxes of ten bulbs.. .. .. .. per box

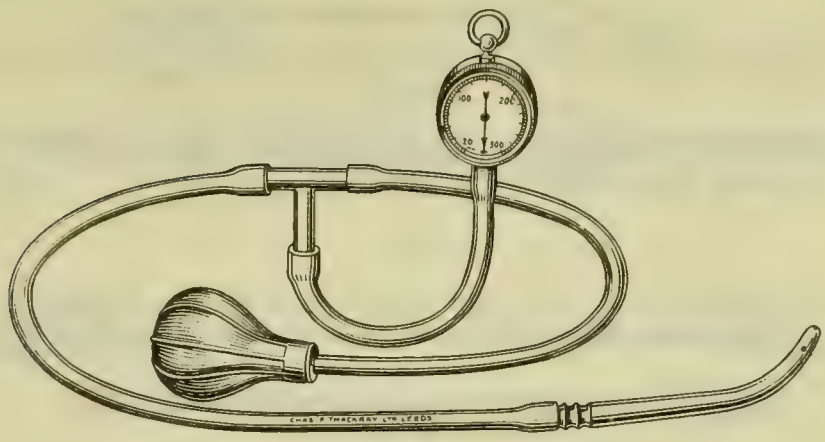


M1510

M1510 SHARMAN'S KYMOGRAPHIC APPARATUS, Mark 3, for uterotubal insufflation, with ink, two cylinders, uterine tube and 100 charts complete

M1511 Spare CO_2 Cylinders .. .. each

220/250 *volts, A.C. only.* *Please write for descriptive leaflet.*

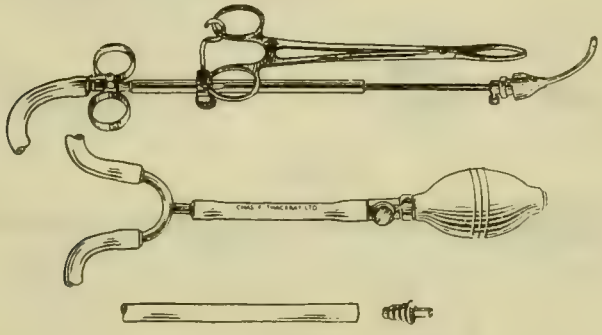


M1512

Cat. No.

M1512 BONNEY'S TUBAL INFLATION APPARATUS, consisting of: aneroid manometer, rubber ball, tubing and chromium plated uterine tube, 11 mm. diameter, in leather case .. .. complete

M1513 Spare Uterine Tubes for above, two sizes, 7 mm. and 11 mm. diameter, chromium plated .. .. each



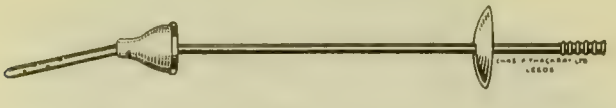
M1514

M1514 CURRIE'S TUBAL INFLATION APPARATUS, for use in conjunction with mercurial sphygmomanometer (†forceps not included) .. complete

M1514A Currie's Tube only with I.R. Acorn and hooks for forceps, chromium plated, complete

The armband of the sphygmomanometer is disconnected from the manometer and replaced by the above apparatus. Can be used with air or Lipiodol. In the latter case, the rubber tubing with metal connection is removed from the cannula to enable a Record fitting syringe to be attached.

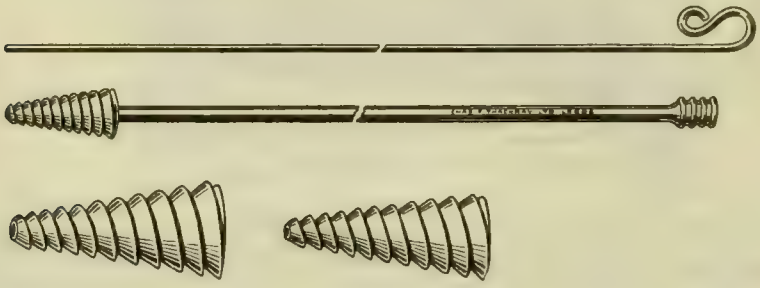
†*Littlewood's Tissue Forceps, Fig.* G376.



M1515

Cat. No.

M1515 HAYES-PROVIS' UTERINE TUBE, with rubber cone fitted to metal collar, with stilette, Record mount, chromium plated .. .. .. each



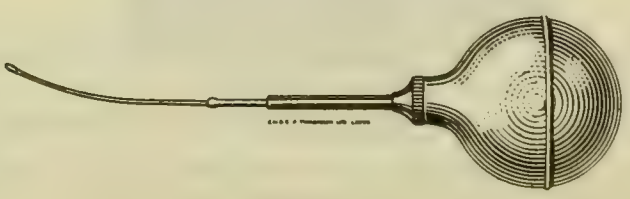
M1516

M1516 LEECH-WILKINSON'S CANNULA, for transuterine insufflation and salpingography, with self-retaining fixed spiral cone and fitted with stilette, Record mount, two sizes of cone: large and small, chromium plated .. .. .. each



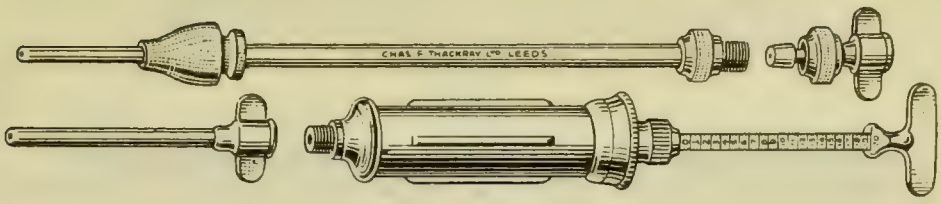
M1517

M1517 PROVIS' UTERINE TUBE, with stilette, Record mount, chromium plated, each



M1518

M1518 BONNEY'S TUBAL INFLATION SYRINGE, with silver pipe and rubber ball, for insertion from the abdominal end .. .. each



M1519

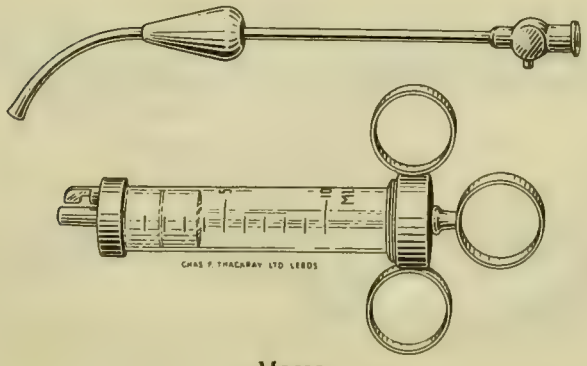
Cat No.

M1519 GREEN-ARMYTAGE'S UTERINE SYRINGE, 20 ml. for salpingography with Lipiodol, all metal, chromium plated, with chromium plated uterine tube, fitted with rubber cone .. .. complete



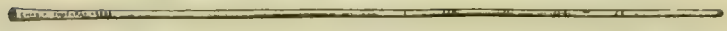
M1520

M1520 DREW SMYTHE'S UTERINE CATHETER, Record mount, for glycerine injection, chromium plated (*without* syringe) .. .. .. each



M1521

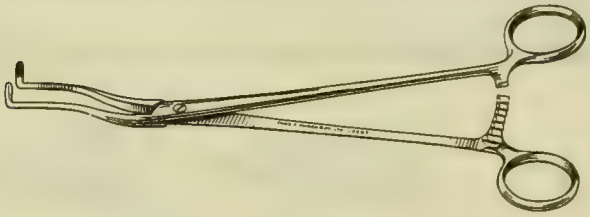
M1521 EVERARD WILLIAMS' SYRINGE, for injecting barium cream into the uterus, 10 ml. syringe with chromium plated tube, in chromium plated case .. complete



M1522

Cat. No.

M1522 REMINGTON HOBBS' CATHETER, rubber, with terminal hole, graduated in inches, sizes: 3, 4, 5, 6 and 7 English Catheter Gauge .. .. each



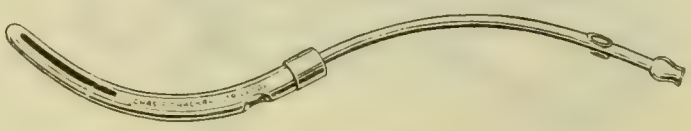
M1523

M1523 REMINGTON HOBBS' INTRODUCING FORCEPS, for above, screw joint, stainless steel .. .. each



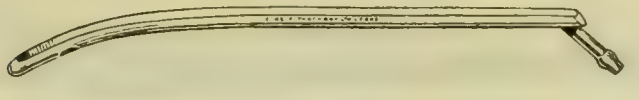
M1524

M1524 REMINGTON HOBBS' RETRACTOR, for the anterior wall, stainless steel, each



M1525

M1525 BOZEMANN'S FLUSHING TUBE, chromium plated, three sizes: 7, 8 and 9 mm. diameter .. .. each

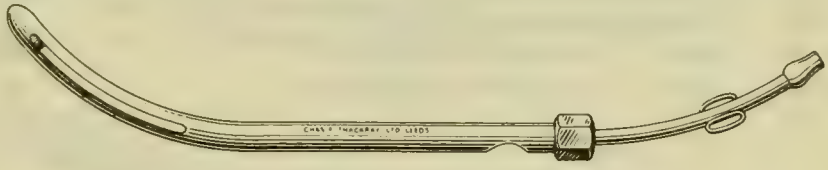


M1526

Cat. No.

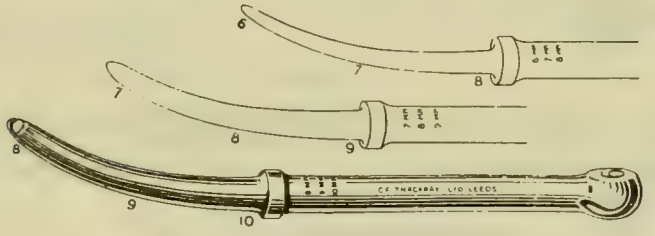
M1526 BUDIN'S FLUSHING TUBE, double channel, chromium plated, two sizes: 8 mm. and 10·5 mm. diameter .. .. each

M1526A Ditto .. glass, two sizes: 12 mm. and 14 mm. diameter .. .. each



M1527

M1527 GIBSON'S FLUSHING TUBE, chromium plated, 13 mm. diameter .. each



M1528

M1528 BONNEY-BARKER'S UTERINE DILATORS, stainless steel, sixteen sizes: 3–4–5, 4–5–6, 5–6–7, 6–7–8, 7–8–9, 8–9–10, 9–10–11, 10–11–12, 11–12–13, 12–13–14, 13–14–15, 14–15–16, 15–16–17, 16–17–18, 17–18–19, 18–19–20 mm. diameter .. .. each

M1529 Ditto .. set of sixteen dilators in khaki wrap .. .. .. set

M1530 Ditto .. ditto .. in polished mahogany case .. .. .. set

M1531 Ditto .. ditto .. chromium plated metal case .. .. .. set

The special tapering end gives a gradual dilation of the cervix. This, together with the short length overcomes the danger of rupture of the cervix and perforation of the body of the uterus.

The diameter of the end of each dilator is the same as the middle of the preceding one, thus giving gradual dilation.

The enlarged rim at the junction of the handle prevents the instrument being passed farther than 2¾ in. into the uterus, so that perforation is impossible except in the case of a very undersized organ.

Vide "B.M.J.", April 8th, 1939.



M1532

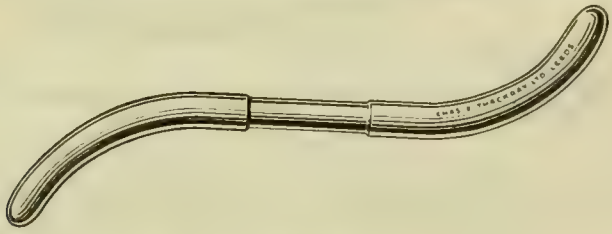
Cat. No.

M1532 CLIFFORD AND WALL'S UTERINE DILATORS, double-ended, chromium plated, seven sizes: 5–6 x 6–7, 7–8 x 8–9, 9–10 x 10–11, 11–12 x 12–13, 13–14 x 14–15, 15–16 x 16–17, 17–18 x 18–19 E.C.G. .. .. .. each

M1533 Ditto .. set of seven dilators in khaki wrap .. .. .. set

M1534 Ditto .. ditto .. in polished mahogany case .. .. .. set

M1535 Ditto .. ditto .. in chromium plated metal case .. .. set



M1536

M1536 FENTON'S UTERINE DILATORS, double-ended, chromium plated, twelve sizes: 3 x 4, 5 x 6, 7 x 8, 9 x 10, 11 x 12, 13 x 14, 15 x 16, 17 x 18, 19 x 20, 21 x 22, 23 x 24, 25 x 26 mm. diameter .. .. each

M1537 Ditto .. set of twelve dilators in khaki wrap .. .. .. set

M1538 Ditto .. ditto .. in polished mahogany case .. .. .. set

M1539 Ditto .. ditto .. in chromium plated metal case .. .. set



M1540

M1540 HAWKINS-AMBLER'S UTERINE DILATORS, chromium plated, sixteen sizes: 3–6, 4–7, 5–8, 6–9, 7–10, 8–11, 9–12, 10–13, 11–14, 12–15, 13–16, 14–17, 15–18, 16–19, 17–20, 18–21 mm. diameter .. .. each

M1541 Ditto .. set of sixteen dilators in khaki wrap .. .. .. set

M1542 Ditto .. ditto .. in polished mahogany case .. .. .. set

M1543 Ditto .. ditto .. in chromium plated metal case .. .. set

E.C.G.=*English Catheter Gauge.*

NOTE.—Sets of dilators to choice can be supplied in khaki wraps, wooden and metal cases to order.



M1544

Cat. No.

M1544 HEGAR'S UTERINE DILATORS, single-ended, chromium plated, twenty-five sizes: 2 to 26 mm. diameter .. .. each

M1545 Ditto .. set of twenty-five dilators in khaki wrap .. .. .. set

M1546 Ditto .. ditto .. in polished mahogany case .. .. .. set

M1547 Ditto .. ditto .. in chromium plated metal case .. .. set



M1548

M1548 HEGAR'S UTERINE DILATORS, double-ended, chromium plated, twelve sizes: 1 x 2, 3 x 4, 5 x 6, 7 x 8, 9 x 10, 11 x 12, 13 x 14, 15 x 16, 17 x 18, 19 x 20, 21 x 22, 23 x 24 mm. diameter .. .. each

M1549 Ditto .. set of twelve dilators in khaki wrap .. .. .. set

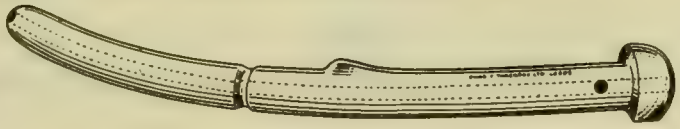
M1550 Ditto .. ditto .. in polished mahogany case .. .. .. set

M1551 Ditto .. ditto .. chromium plated metal case .. .. .. set

M1552 Ditto .. set of eight dilators sizes: 3 x 4 to 17 x 18 mm. diameter in khaki wrap, set

M1553 Ditto .. ditto .. in polished mahogany case .. .. .. set

M1554 Ditto .. ditto .. in chromium plated metal case .. .. set



M1555

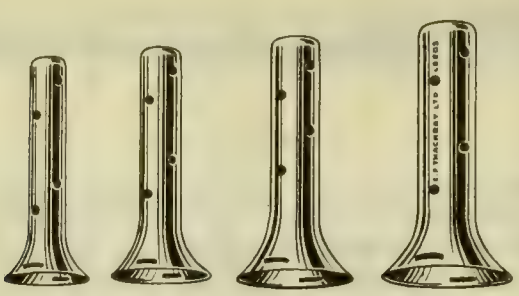
M1555 RAMSAY'S UTERINE DILATORS, cannulated, with terminal hole, chromium plated, sixteen sizes: 3–6, 4–7, 5–8, 6–9, 7–10, 8–11, 9–12, 10–13, 11–14, 12–15, 13–16, 14–17, 15–18, 16–19, 17–20, 18–21 mm. diameter .. .. each

M1556 Ditto .. set of sixteen dilators in khaki wrap .. .. .. set

M1557 Ditto .. ditto .. in polished mahogany case .. .. .. set

M1558 Ditto .. ditto .. in chromium plated metal case .. .. set

NOTE.—Sets of dilators to choice can be supplied in khaki wraps, wooden and metal cases to order.



M1559

Cat. No.

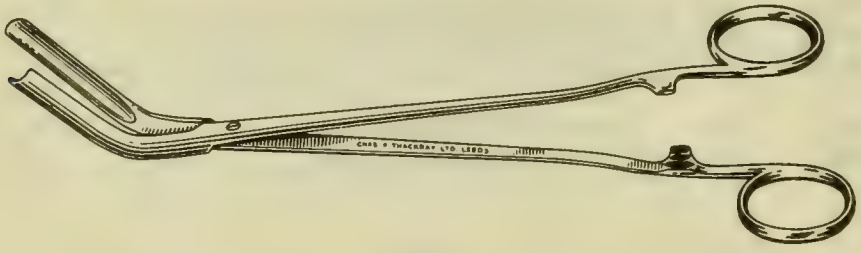
M1559 McCULLAGH'S INTRA-UTERINE STEMS, for dysmenorrhœa, silver plated, four sizes: 8, 10, 12 and 14 mm. diameter .. .. each



M1560

M1560 LAMINARIA TENTS, solid, in boxes of twelve assorted sizes .. box

M1561 Ditto .. sterile, in boxes of three glass tubes .. .. .. box



M1562

M1562 INTRODUCING FORCEPS, for Laminaria Tents, screw joint, 9½ in., stainless steel .. .. each



M1563

M1563 SIMS' VAGINAL DILATORS, glass, six sizes: ⅞ in., 1 in., 1⅛ in., 1¼ in., 1⅜ in. and 1½ in. diameter at base .. .. each

M1563A Ditto .. vulcanite, six sizes: ⅞ in., 1 in., 1⅛ in., 1¼ in., 1 5/16 in. and 1⅜ in. diameter at base .. .. each



M1564

Cat. No.

M1564 GALABIN'S UTERINE SOUND, 11½ in., silver plated .. .. each



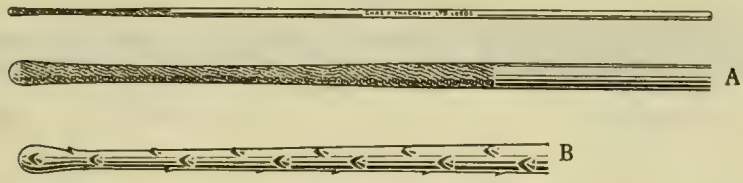
M1565

M1565 HORROCKS' UTERINE SOUND, 11½ in., silver plated .. .. each



M1566

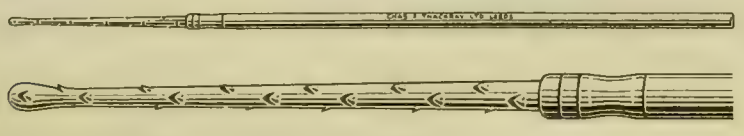
M1566 SIMPSON'S UTERINE SOUND, 11½ in., silver plated .. .. each



M1567–8

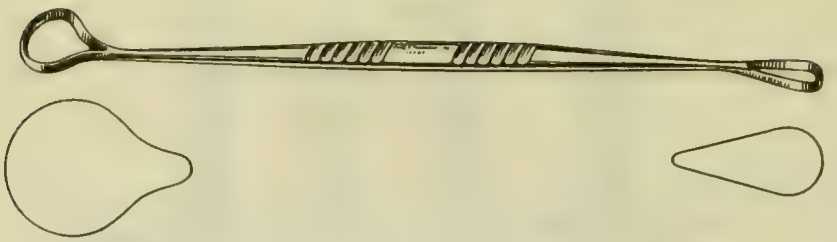
M1567 PLAYFAIR'S PROBE, roughened end, aluminium (A) .. .. each

M1568 Ditto .. spiked end (B) .. .. each



M1569

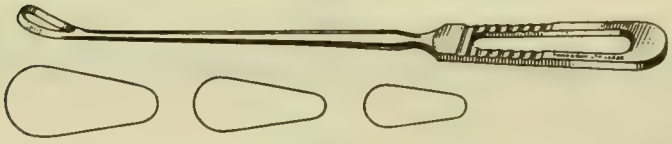
M1569 PLAYFAIR'S PROBE, spiked copper end, chromium plated .. .. each



M1570

Cat. No.

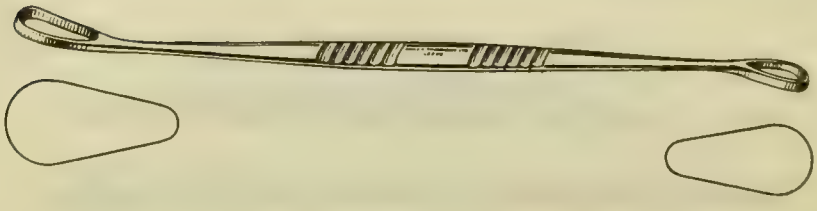
M1570 GERVIS' UTERINE CURETTE, double-ended, sharp, 10½ in., stainless steel, each



M1571

M1571 SIMS' UTERINE CURETTE, single-ended, sharp, 10 in., three sizes: small, medium and large, stainless steel .. .. each

M1572 Ditto .. blunt .. .. each



M1573

M1573 SIMS' UTERINE CURETTE, double-ended, sharp, 10 in., stainless steel, each



M1574

Cat. No.

M1574 SIMS' UTERINE CURETTE, double-ended, sharp and blunt ends, 10 in., stainless steel .. .. each



M1575

M1575 CHELSEA HOSPITAL PATTERN FLUSHING CURETTE, sharp, stainless steel blade, 12½ in., chromium plated .. .. each

*M1576 Ditto .. with stopcock on mount .. .. each



M1577

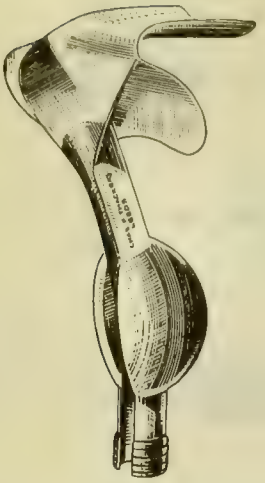
M1577 DONALD'S FLUSHING CURETTE, sharp, stainless steel blade, 13 in., chromium plated .. .. each



M1578

M1578 RHEINSTÄDTER'S FLUSHING CURETTE, blunt, 11½ in., three sizes: $\frac{5}{16}$ in., $\frac{7}{16}$ in. and $\frac{8}{16}$ in. width of scoop, chromium plated .. .. each

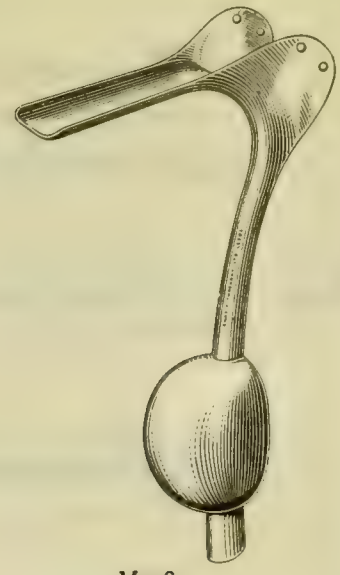
**Not illustrated*



M1579



M1581



M1582

Cat. No.

M1579 AUVARD'S VAGINAL SPECULUM, with fixed weight, blade 2¾ in. long, chromium plated .. .. each

M1580 Ditto .. with detachable weight .. .. each

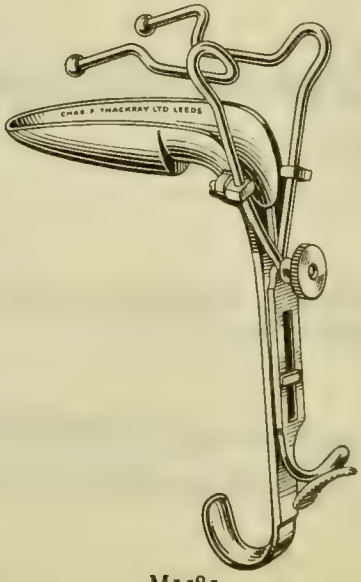
M1581 MAGIAN'S SIEVE, for use with Auvard's type Specula, chromium plated each

M1582 AUVARD'S VAGINAL SPECULUM, seamless pattern, with fixed weight, blade 3½ in. long, chromium plated .. .. each

M1583 Ditto .. with detachable weight .. .. each



M1584

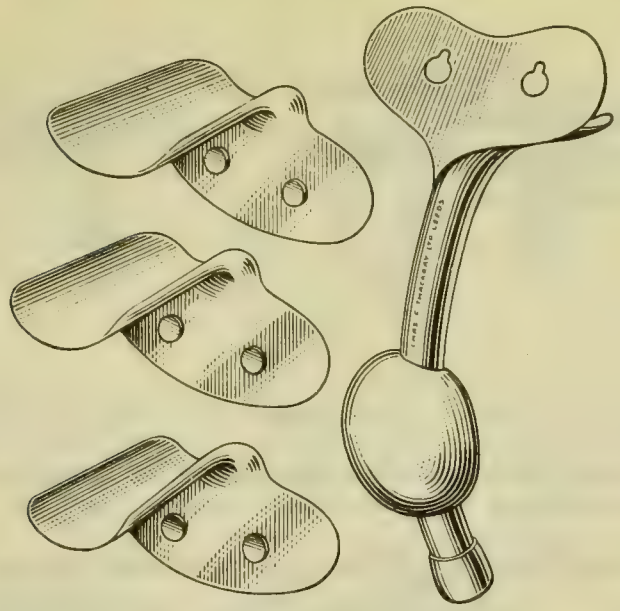


M1585

M1584 BAILEY'S LIGHTWEIGHT VAGINAL SPECULUM, with fixed weight, blade 3 in. long, chromium plated .. .. each

Vide "B.M.J.", August 30th, 1952. Page 512.

M1585 TRI-BLADE VAGINAL SPECULUM, adjustable, chromium plated each



M1586

Cat. No.

M1586 RAMSAY'S modified AUVARD'S VAGINAL SPECULUM, with three interchangeable blades and fixed weight, chromium plated .. .. set



287-6015

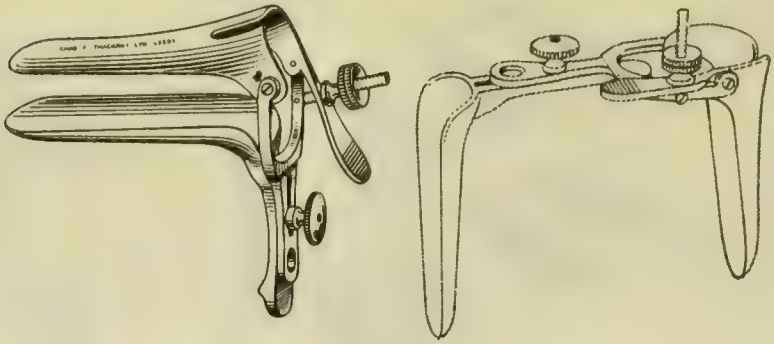
Cat. No.

287-6015 CERVICAL OCCLUSION CONE with DETACHABLE INTRODUCER, diameter of cone 15 mm chromium plated .....

287-6016 Spare CONES only .....

This instrument is designed to occlude the cervix before hysterectomy by screwing the cone into the canal in cases of carcinoma of the body of the uterus. It helps to prevent the spill of cancer cells into the pelvis and vagina at the time of operation.

As used at the City General Hospital, Gloucester.

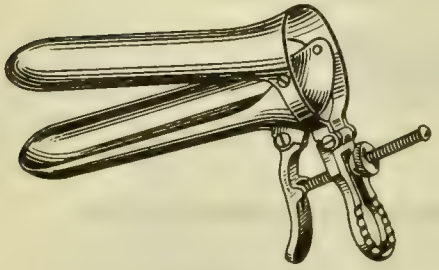


M1590

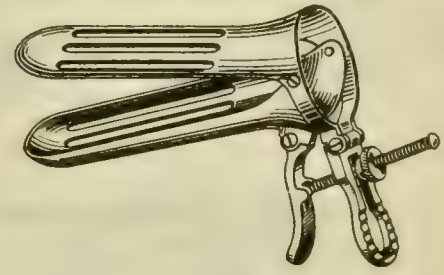
Cat. No.

†M1590 BREWER'S VAGINAL SPECULUM, three sizes: large (4⅝ in. long x 1⅜ in. wide), medium (4¼ in. long x 1¼ in. wide), small (3¾ in. long x 1 in. wide); chromium plated .. .. each

†*See Addendum for details of extra small size (Beynon's modification)*



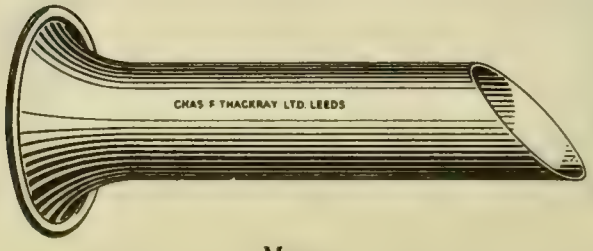
M1591



M1592

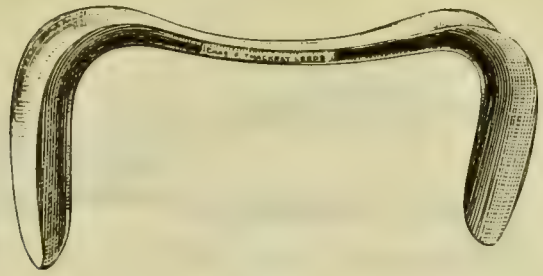
M1591 CUSCO'S VAGINAL SPECULUM, three sizes: small, medium and large, chromium plated .. .. each

M1592 CUSCO'S VAGINAL SPECULUM, with fenestrated blades, three sizes: small, medium and large, chromium plated .. .. each



M1593

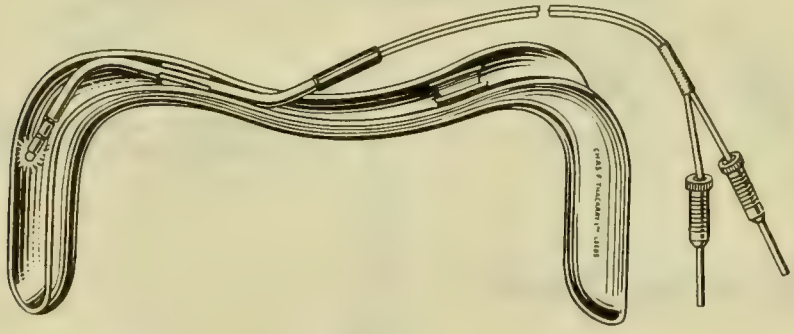
M1593 FERGUSSON'S VAGINAL SPECULUM, four sizes: ⅞ in., 1⅛ in., 1⅜ and 1½ in. diameter at end, chromium plated .. .. each



M1594

Cat. No.

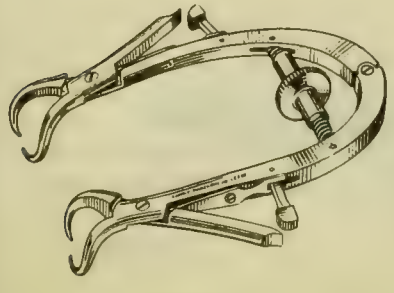
M1594 SIMS' VAGINAL SPECULUM, three sizes: small, $2\frac{1}{2}$" long × 1" wide and $2\frac{3}{8}$" long × $\frac{7}{8}$" wide; medium, $2\frac{3}{4}$" long × $1\frac{3}{16}$" wide and $2\frac{5}{8}$" long × $1\frac{1}{16}$" wide; and large, $3\frac{7}{8}$" long × $1\frac{5}{16}$" wide and $3\frac{1}{4}$" long × $1\frac{3}{16}$" wide, chromium plated .. each



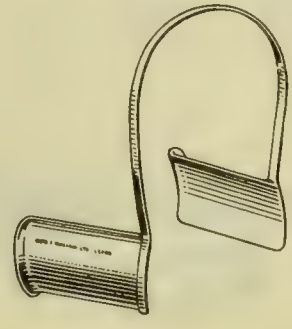
M1595

M1595 SIMS' VAGINAL SPECULUM, with detachable light carrier, three sizes: small, medium and large, chromium plated, complete with spare lamp and rubber-covered cables .. .. each

M1596 Spare Lamps for above, 3·5 volts .. .. each



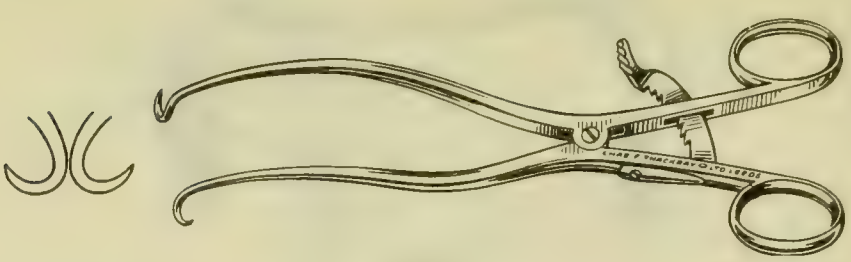
M1597



M1598

M1597 BLAIR BELL'S (or Friedmann's) VULVA RETRACTOR, stainless steel each

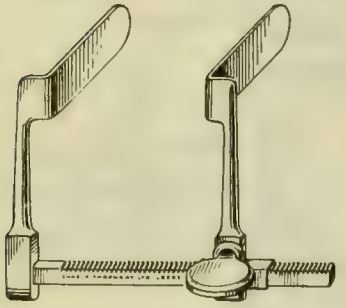
M1598 COLLINS' VAGINAL RETRACTOR, self-retaining, chromium plated, each



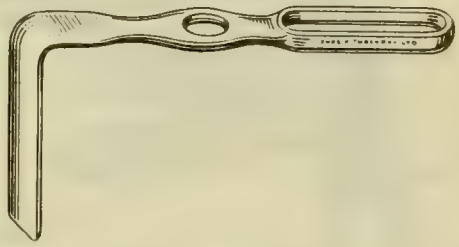
M1599

Cat. No.

M1599 GELPI'S VULVA RETRACTOR, self-retaining, with sharp hook-jaws, stainless steel .. .. each



M1600

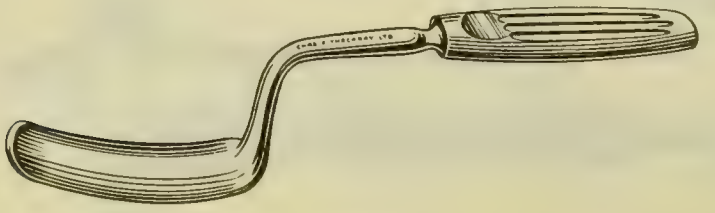


M1601

M1600 JAYLE'S VAGINAL RETRACTOR, self-retaining, stainless steel .. each

M1601 LANDON'S VAGINAL RETRACTOR, with blade 3½ in. deep by 1 in. wide, chromium plated .. .. each

M1602 Ditto .. stainless steel .. .. each



M1603

M1603 "VIENNA" PATTERN VAGINAL RETRACTOR (or Wertheim's Blade), two sizes of blade: 3¾ in. by 1⅜ in. and 4 in. by 1½ in., chromium plated .. each



M1604

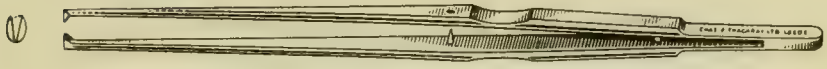
Cat No.

M1604 GERVIS' VAGINAL DEPRESSOR, 10½ in., chromium plated .. each



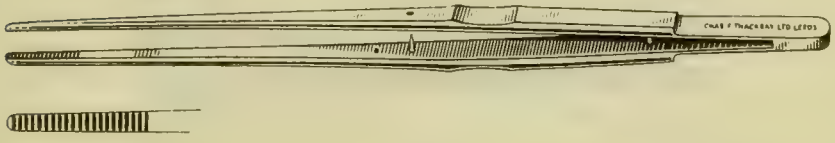
M1605

M1605 SIMS' VAGINAL DEPRESSOR, 10½ in., chromium plated .. each



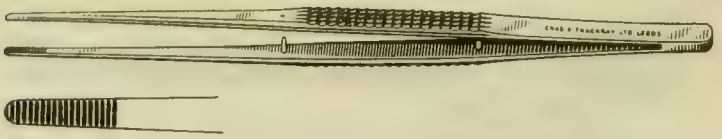
M1606

M1606 UTERINE DRESSING FORCEPS, with one into two teeth, 8½ in., stainless steel, each



M1607

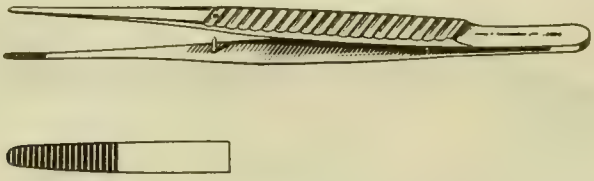
M1607 UTERINE DRESSING FORCEPS, with serrated jaws, 9½ in., stainless steel, each



M1608

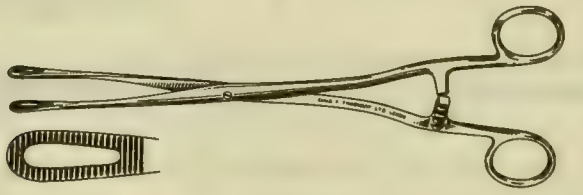
Cat. No.

M1608 UTERINE DRESSING FORCEPS, with serrated jaws, 12 in., stainless steel, each



M1609

M1609 UTERINE DRESSING FORCEPS, with serrated jaws, 10 in., stainless steel, each



M1610

M1610 BONNEY'S POLYPI FORCEPS, screw joint, 9½ in., stainless steel .. each

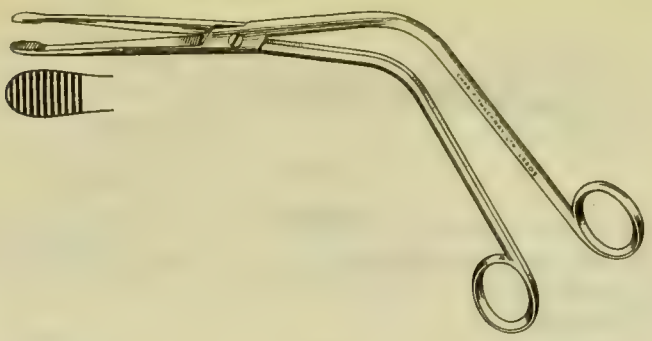
For removing cervical polypi and useful as uterine dressing forceps.



M1611

M1611 BOZEMANN'S UTERINE DRESSING FORCEPS, Rotunda Hospital Pattern, box joint 10½ in., stainless steel .. .. each

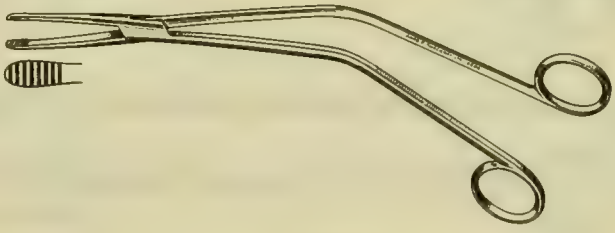
This instrument has a large bow to take two fingers and thus ensures a comfortable grip.



M1612

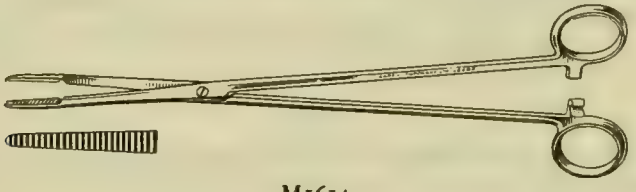
Cat. No.

M1612 JESSOP HOSPITAL PATTERN UTERINE DRESSING FORCEPS, screw joint, 10½ in., stainless steel .. .. each



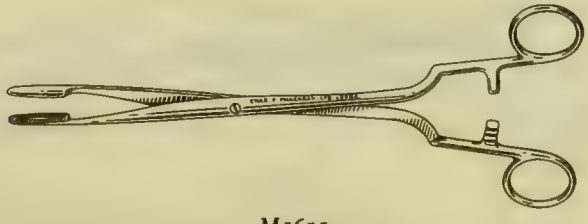
M1613

M1613 JESSOP HOSPITAL PATTERN UTERINE DRESSING FORCEPS, box joint, 10 in. stainless steel .. .. each



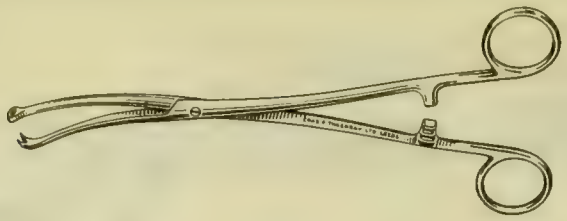
M1614

M1614 ROYAL FREE HOSPITAL PATTERN UTERINE DRESSING FORCEPS, screw joint, 10½ in., stainless steel .. .. each



M1615

M1615 UTERINE DRESSING FORCEPS, screw joint, 10 in., stainless steel, each

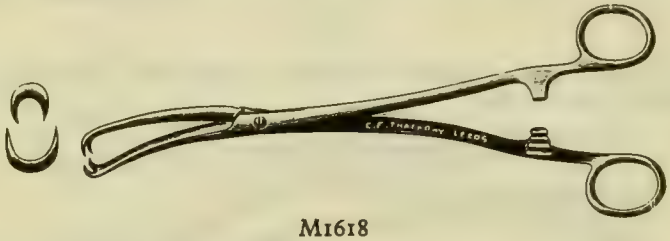


M1616

Cat. No.

M1616 DONALD'S VULSELLUM FORCEPS, with two teeth into fenestrum, screw joint, 9¾ in., stainless steel .. .. each

M1617 Ditto .. box joint .. .. each



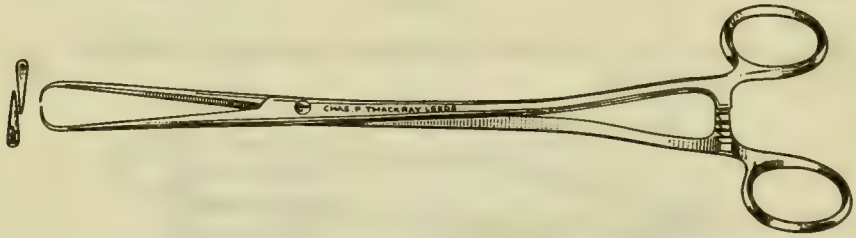
M1618

M1618 LEWER'S VULSELLUM FORCEPS, with two into two teeth, screw joint, 9½ in., stainless steel .. .. each

M1619 Ditto .. box joint .. .. each

M1620 LEWER'S VULSELLUM FORCEPS, with two into two teeth, screw joint, 7 in., stainless steel .. .. each

M1621 Ditto .. box joint .. .. each

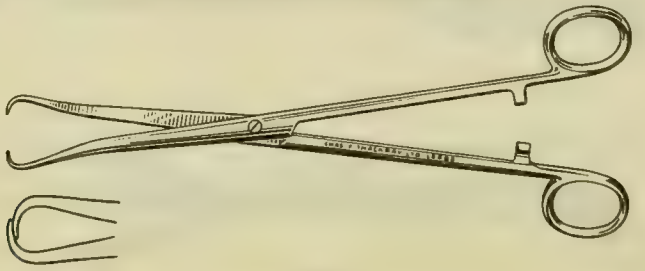


M1622

M1622 LUER'S VULSELLUM FORCEPS, with two single prongs, screw joint, 9 in., stainless steel .. .. each

M1623 Ditto .. box joint .. .. each

Originally designed as bullet forceps.



M1624

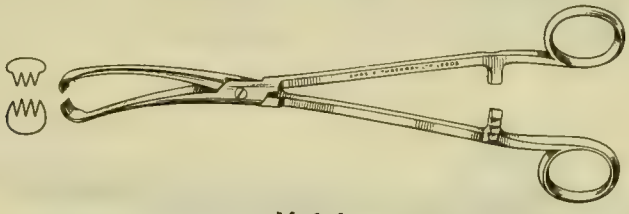
M1624 ROTUNDA HOSPITAL PATTERN VULSELLUM FORCEPS, with two single prongs, screw joint, 10½ in., stainless steel .. .. .. each



M1625

Cat. No.

M1625 SCHROEDER'S VULSELLUM FORCEPS, with double prong jaws, screw joint, 10½ in., stainless steel .. .. each



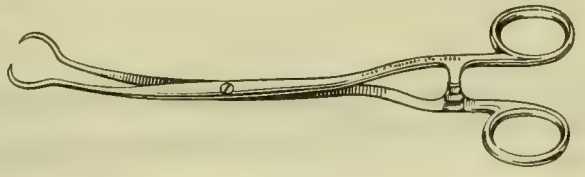
M1626

M1626 TEALE'S VULSELLUM FORCEPS, with three into four teeth, screw joint, 9½ in., stainless steel .. .. each

M1627 Ditto .. box joint .. .. each

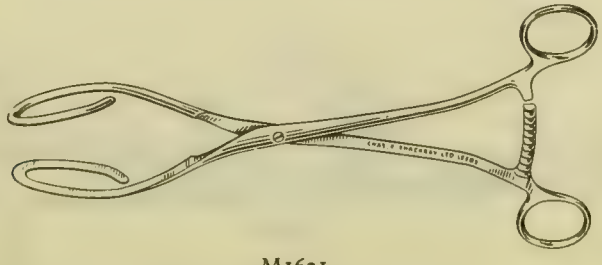
M1628 TEALE'S VULSELLUM FORCEPS, with three into four teeth, screw joint, 7 in., stainless steel .. .. each

M1629 Ditto .. box joint .. .. each



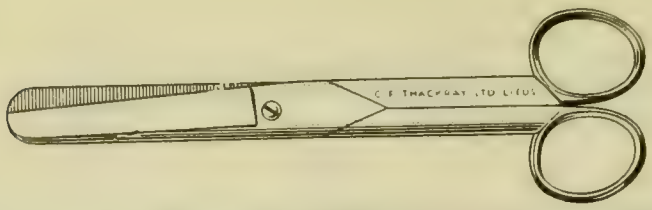
M1630

M1630 WORRALL'S VULSELLUM FORCEPS, with two single prongs, screw joint, 9½ in., stainless steel .. .. each



M1631

M1631 DARTIGUES' UTERUS HOLDING FORCEPS ("Hysterolabe"), screw joint, 10 in., stainless steel .. .. each

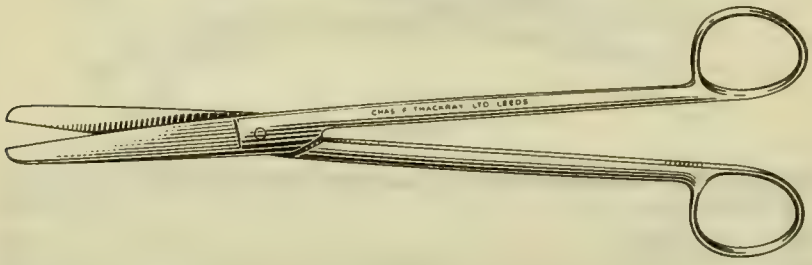


M1632

Cat. No.

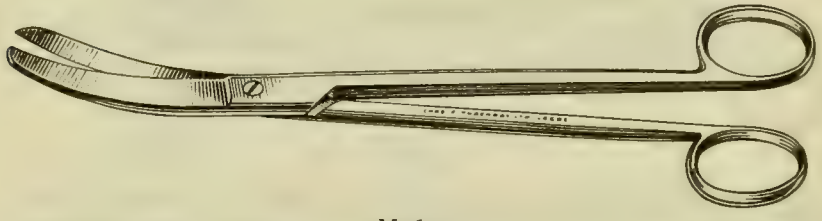
M1632 DOYEN'S SCISSORS, heavy, straight, 7 in., stainless steel .. .. each

M1633 Ditto .. curved-on-flat .. .. each



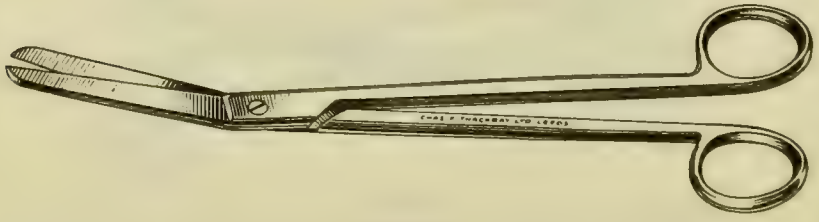
M1634

M1634 UTERINE SCISSORS, straight, 9 in., stainless steel .. .. each



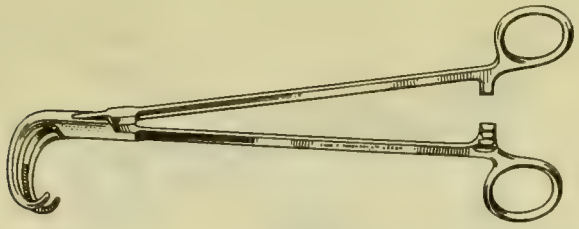
M1635

M1635 UTERINE SCISSORS, curved-on-flat, 9 in., stainless steel .. each



M1636

M1636 UTERINE SCISSORS, angled-on-flat, 9 in., stainless steel .. each

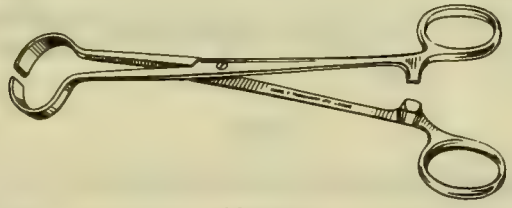


M1637

Cat. No.

M1637 MILLIN-READ'S FASCIA FORCEPS, box joint, 9 in., stainless steel each

Used in the urethral sling operation for stress incontinence in women.



M1638

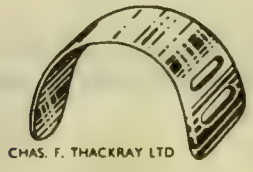


M1639

M1638 McINTOSH MARSHALL'S URETHRA HOLDING FORCEPS, screw joint, 8½ in., stainless steel .. .. each

M1639 McINTOSH MARSHALL'S FASCIA INTRODUCER, 8½ in., stainless steel, chromium plated handle .. .. each

Vide "Relief of severe stress incontinence", The Journal of Obstetrics and Gynæcology of the British Empire, Vol. LV, No. 2, April, 1948.



M1640

M1640 CALVERT'S FASCIAL BODKIN, stainless steel .. .. .. each

Used in the urethral sling operation, to facilitate the passage of fascial strips.
Vide "B.M.J.", Feb. 14th, 1948, page 308.



M1641

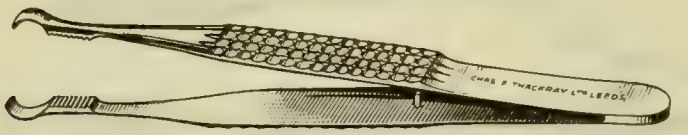
Cat. No.

M1641 BONNEY-BERKELEY'S VENTRO-SUSPENSION FORCEPS, screw joint, 7¾ in., stainless steel .. .. each



M1642

M1642 CROSSEN'S VENTRO-SUSPENSION FORCEPS, screw joint, 7¾ in., stainless steel .. .. each



M1643

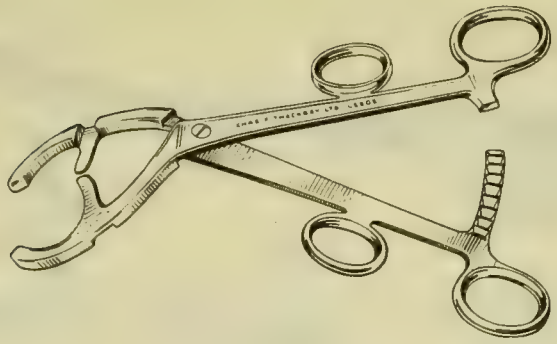
M1643 McINTOSH MARSHALL'S URETER HOLDING FORCEPS, 7½ in., stainless steel .. .. each

For use as dissecting, holding and retracting forceps in radical hysterectomy and pelvic lymphadenectomy.



M1644

M1644 PEAN'S OVARIAN TROCAR, stainless steel, with chromium plated cannula 11 mm. diameter .. .. each

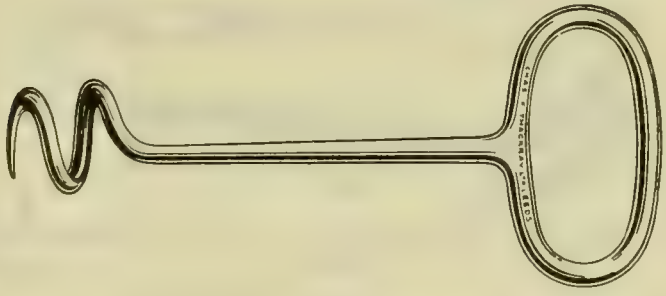


M1645

Cat. No.

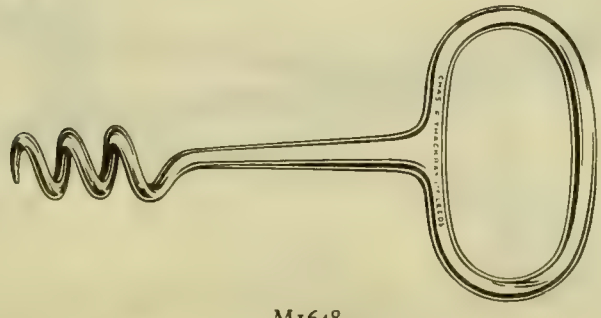
M1645 BONNEY'S MYOMECTOMY FORCEPS, screw joint, 10 in., stainless steel, each

*M1646 Ditto .. Cæsarean Pattern, with longer jaws and lesser curve .. each



M1647

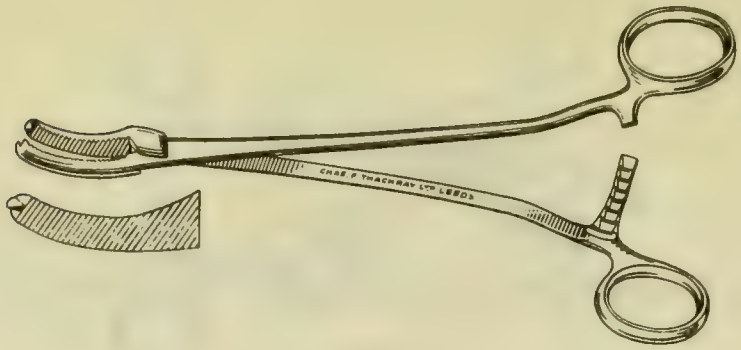
M1647 DOYEN'S MYOMA SCREW, large size, stainless steel .. .. each



M1648

M1648 DOYEN'S MYOMA SCREW, small size, stainless steel .. .. each

Not illustrated



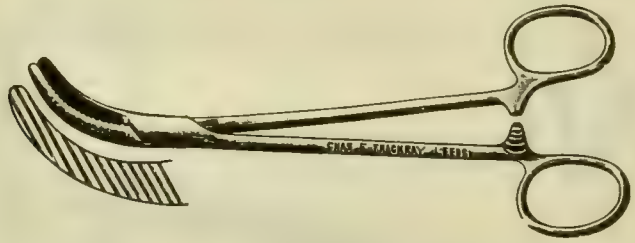
M1649

Cat. No.

M1649 FAURE'S UTERINE ARTERY FORCEPS, curved-on-flat, aseptic joint, 8 in., stainless steel .. .. each

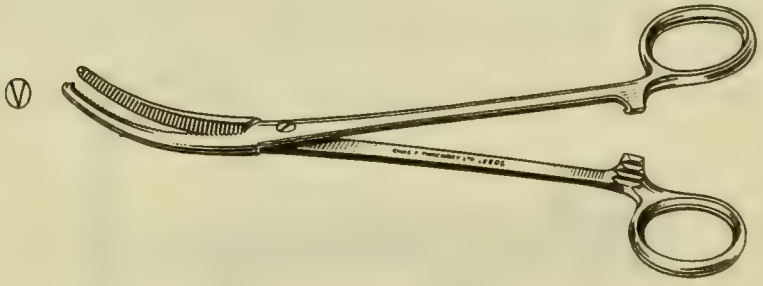
*M1650 Ditto .. with longitudinally grooved jaws, as used at the Birmingham Women's Hospital .. .. each

NOTE.—The above forceps can also be supplied screw joint.



M1651

M1651 MILES PHILLIPS' UTERINE ARTERY FORCEPS, curved-on-flat, box joint, 6½ in., stainless steel .. .. each

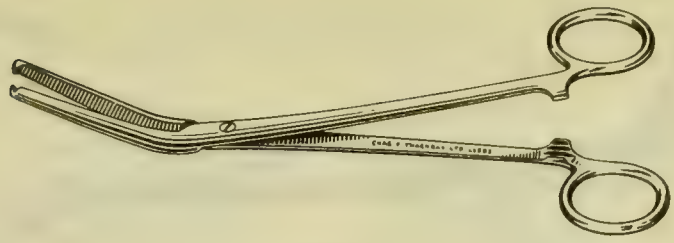


M1652

M1652 BONNEY-BERKELEY'S HYSTERECTOMY CLAMP FORCEPS, curved-on-flat, screw joint, 7½ in., stainless steel .. .. each

M1653 Ditto .. box joint .. .. each

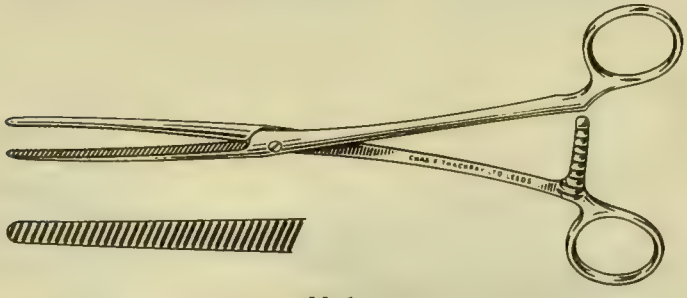
**Not illustrated*



M1654

Cat. No.

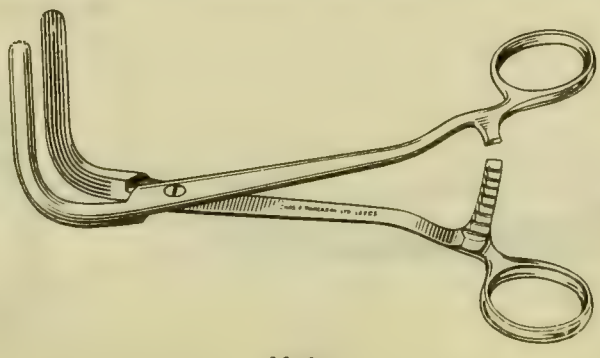
M1654 BONNEY-BERKELEY'S HYSTERECTOMY CLAMP FORCEPS, angled-on-flat, screw joint, 7½ in., stainless steel .. .. each



M1655

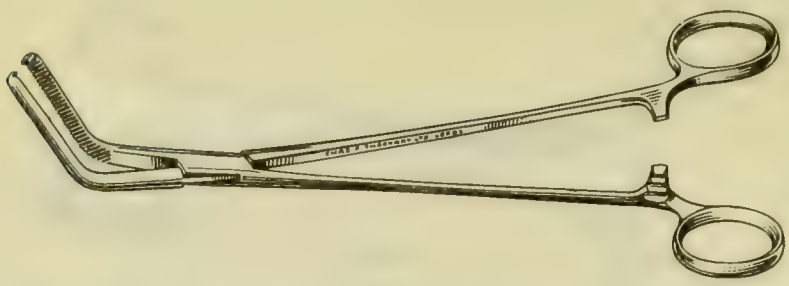
M1655 DOYEN'S HYSTERECTOMY CLAMP FORCEPS, straight, screw joint, 8 in., stainless steel .. .. each

M1656 Ditto .. 11 in. .. .. each



M1657

M1657 EDEN'S modified WERTHEIM'S HYSTERECTOMY CLAMP FORCEPS, with longitudinally grooved jaws, angled-on-flat, screw joint, 9¾ in., stainless steel, each

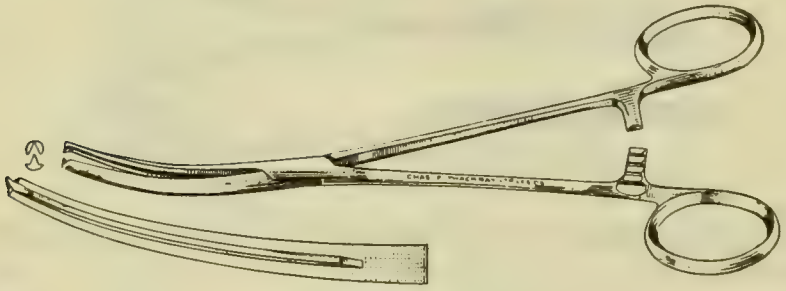


M1658

Cat. No.

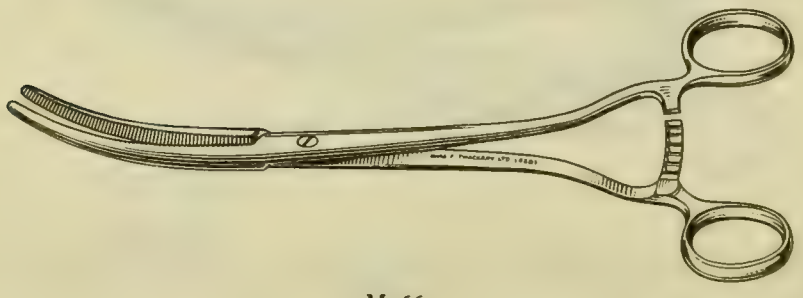
M1658 "LEEDS" PATTERN HYSTERECTOMY CLAMP FORCEPS, angled-on-flat, box joint, $8\frac{3}{4}$ in., stainless steel .. .. each

For clamping the vagina in Wertheim's Hysterectomy, four clamps are required: two each side of the vagina. As used by Mr. David Currie of Leeds.



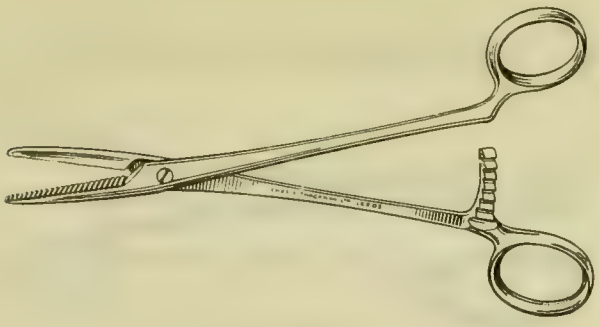
M1659

M1659 MAINGOT'S HYSTERECTOMY CLAMP FORCEPS, as used at Jessop Hospital, curved-on-flat, box joint, 8 in., stainless steel .. .. each



M1660

M1660 TERRIER'S HYSTERECTOMY CLAMP FORCEPS, curved-on-flat, screw joint, 9 in., stainless steel .. .. each

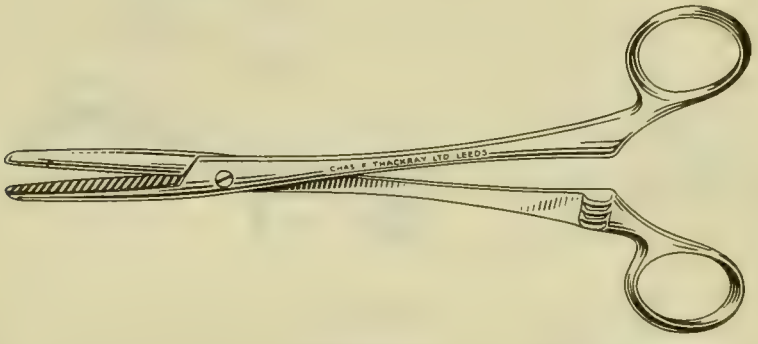


M1661

Cat. No.

M1661 SPENCER WELLS' HYSTERECTOMY CLAMP FORCEPS, straight, screw joint, 7 in., stainless steel .. .. each

M1662 Ditto .. 8 in. .. .. each



M1663

M1663 SPENCER WELLS' COMPRESSION CLAMP FORCEPS, straight, heavy, screw joint, 8½ in., stainless steel .. .. each

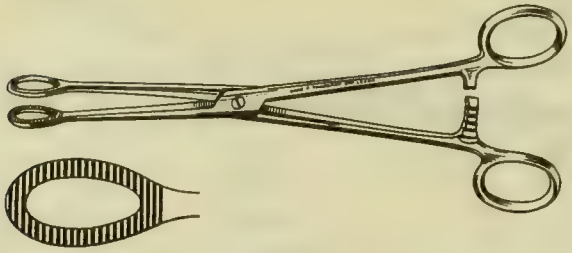
M1664 Ditto .. angled-on-flat .. .. each



M1665

M1665 WERTHEIM'S HYSTERECTOMY CLAMP FORCEPS, angled-on-flat, screw joint, 10 in., stainless steel .. .. each

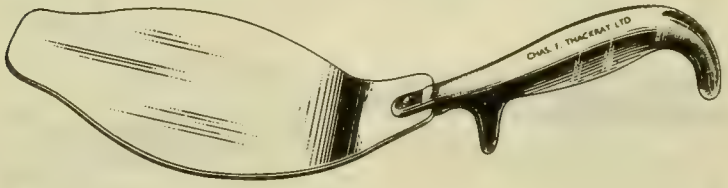
NOTE.—Mayo-Ochsner's Clamps (as used at Chelsea Hospital, London), see Fig. Nos. G434 *and* G438 *in the General Section.*



M1666

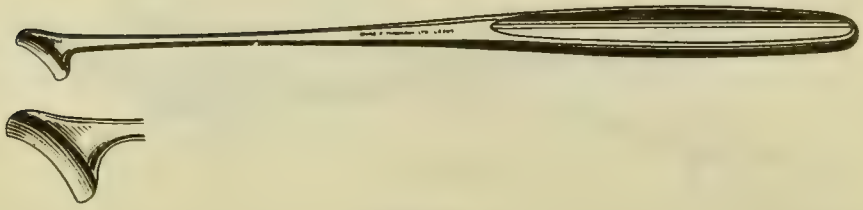
Cat. No.

M1666 BONNEY'S RING FORCEPS, screw joint, 9¼ in., stainless steel .. each



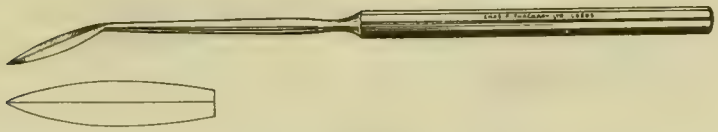
M1667

M1667 VAN ROOY'S HYSTERECTOMY SPADE, stainless steel, chromium plated handle .. .. each



M1668

M1668 ANDERSON'S CERVICAL BIOPSY CURETTE ("Half-Moon"), with sharp lower edge, stainless steel .. .. each

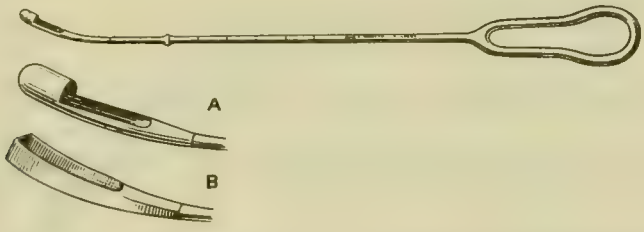


M1669

Cat. No.

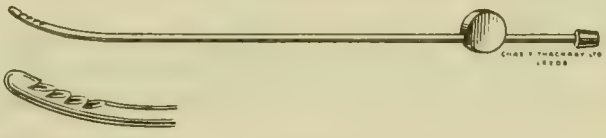
M1669 AYRE'S CERVICAL BIOPSY KNIFE, double-edged blade, nickel plated, each

M1670 Wooden Box for above .. .. each



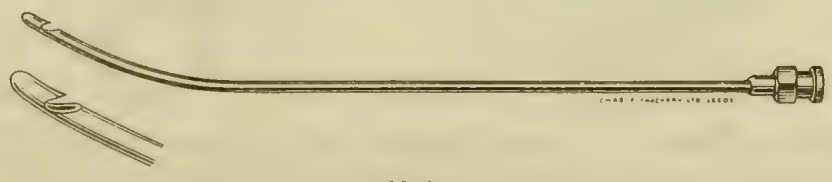
M1671

M1671 LINDSAY O. WATT'S ENDOMETRIAL BIOPSY CURETTE, two models: A and B, stainless steel .. .. each



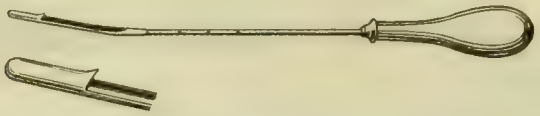
M1672

M1672 NOVAK'S ENDOMETRIAL BIOPSY CURETTE, Record fitting mount for syringe, stainless steel .. .. each



M1673

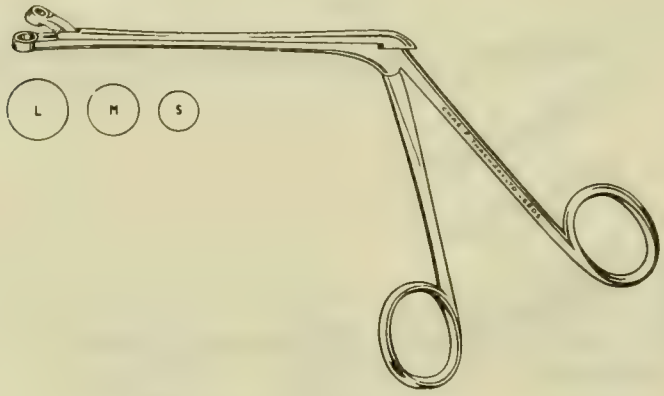
M1673 RANDALL'S ENDOMETRIAL BIOPSY CURETTE, Record fitting mount for syringe, stainless steel .. .. each



M1674

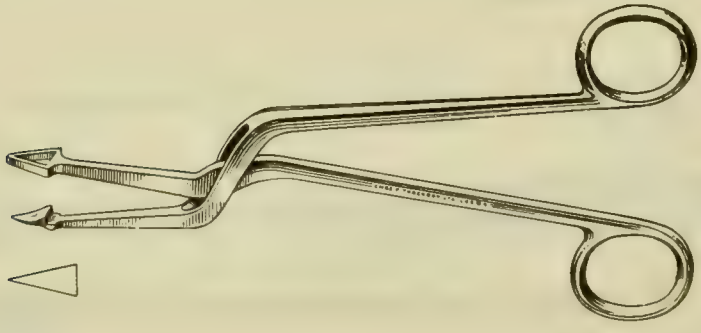
Cat. No.

M1674 SHARMAN'S ENDOMETRIAL BIOPSY CURETTE, stainless steel, chromium plated handle .. .. each



M1675

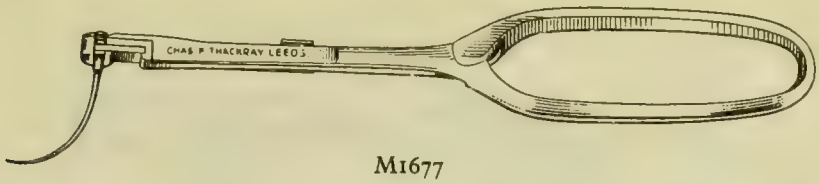
M1675 CERVICAL BIOPSY PUNCH FORCEPS, three sizes: small, medium and large, stainless steel .. .. each



M1676

M1676 WALTER'S VAGINAL BIOPSY PUNCH FORCEPS, as used at Jessop Hospital, stainless steel .. .. each

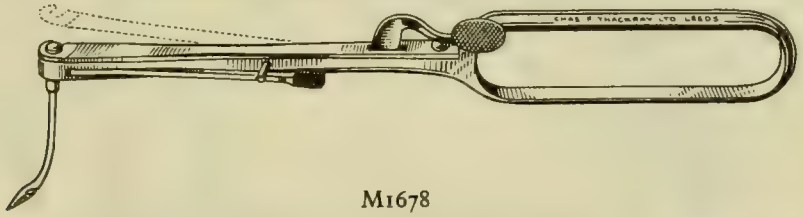
Vide "B.M.J.", April 5th, 1947. Page 462.



M1677

Cat. No.

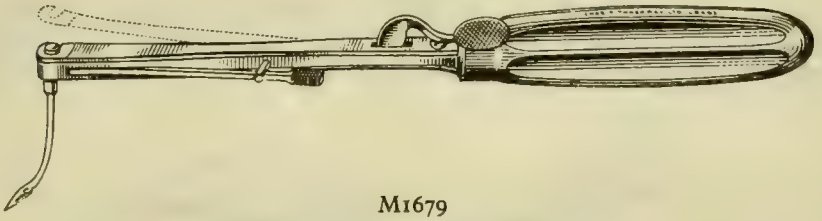
M1677 BONNEY-REVERDIN'S NEEDLE HOLDER, standard model, without needles, stainless steel .. .. each



M1678

M1678 BONNEY-REVERDIN'S NEEDLE HOLDER, PERCIVAL'S modification, without needles, stainless steel .. .. each

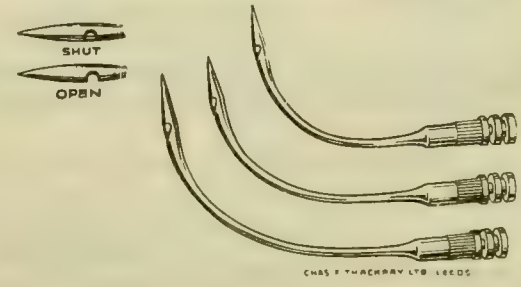
In this instrument the needle stilette is controlled by a thumb-operated spring lever and not by compression of the handle as on the standard model.



M1679

M1679 BONNEY-REVERDIN'S NEEDLE HOLDER, PERCIVAL'S modification, without needles, stainless steel, sand-blasted hollow handle .. .. each

This instrument is identical with Fig. M1678 *but fitted with a hollow handle.*



M1680

M1680 BONNEY-REVERDIN'S NEEDLES, to fit above holders, sharp, three sizes: small, medium and large, stainless steel .. .. each

*M1681 Ditto .. blunt, medium size only .. .. .. each

*M1682 Case for holder and four needles, chromium plated .. .. .. each

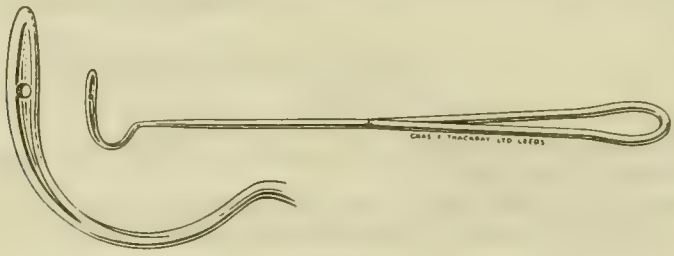
**Not illustrated*



M1683

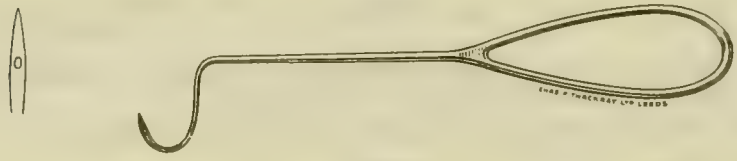
Cat. No.

M1683 BONNEY'S NEEDLE, sharp, for trachelorrhaphy, etc., stainless steel .. each



M1684

M1684 DESCHAMPS' NEEDLE, blunt, for broad ligament, two patterns: curved-to-right and curved-to-left, stainless steel .. .. each



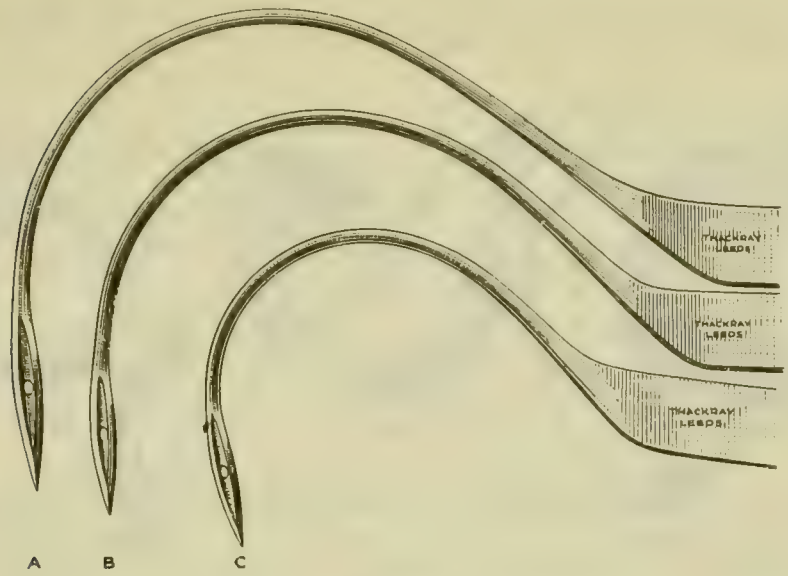
M1685

M1685 QUEEN CHARLOTTE'S HOSPITAL PATTERN PERINEUM NEEDLE, sharp, two patterns: curved-to-right and curved-to-left, stainless steel .. each



M1686

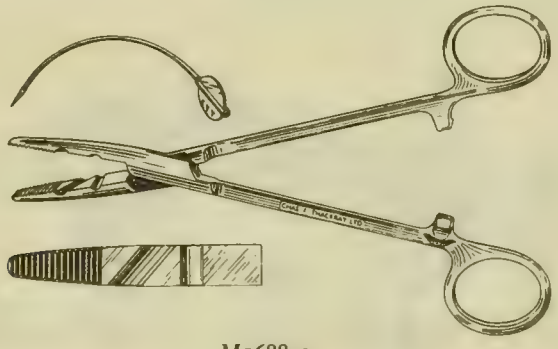
M1686 WORRALL'S NEEDLE, for pedicle, blunt, two patterns: curved-to-right and curved-to-left, stainless steel .. .. each



M1687

Cat. No.

M1687 CROFT'S PERINEUM NEEDLES, sharp, three sizes: A, B and C, stainless steel .. .. each



M1688–9

M1688 LAURIE'S HOLLOW PERINEUM NEEDLE, stainless steel .. each

M1689 LAURIE'S COMBINED ARTERY FORCEPS AND NEEDLE HOLDER, for use with above, box joint, 6 in., stainless steel .. .. .. each

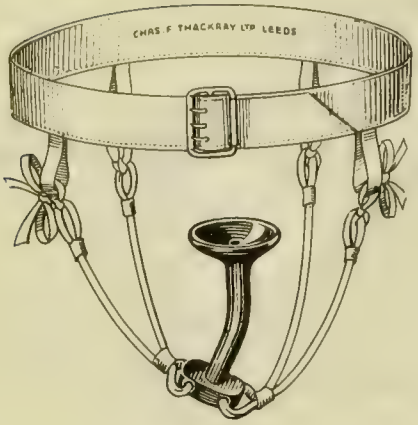
Reprinted from the BRITISH MEDICAL JOURNAL, *Nov.* 2, 1946, *vol. ii, page* 654.

Dr. J. S. LAURIE (Pontefract) writes:

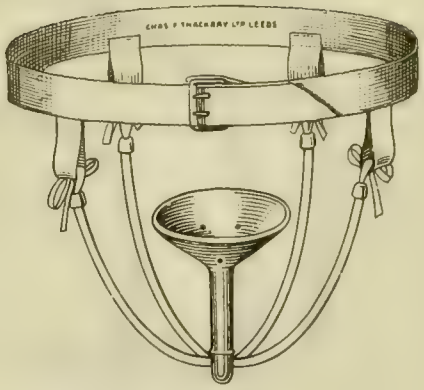
Since the description (*B.M.J.*, Sept. 9, 1944) of my use of a hollow curved perineum needle for obstetric work, it appears that very widespread interest has been aroused in this simple little instrument. Messrs. C. F. Thackray Ltd., of Leeds, who made the original needle for me, have kindly designed a combined hæmostat and needle-holder in stainless steel, with grooves in the jaws permitting the needle to be gripped at either of two angles without damaging its lumen.

I have found this instrument very useful in giving more purchase and thus minimizing still more the discomfort to the tired mother, while the variation of angle covers most of the awkward positions in which one may have to work in domestic midwifery. It is of interest to note also that stitches with the round needle have much less tendency to cut out than those with a cutting needle as normally used.

The hæmostat end saves duplication of instruments in an already crowded bag.



M1690

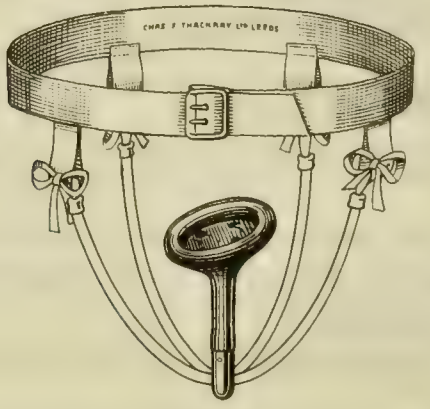


M1691

Cat. No.

M1690 BARNES' STEM PESSARY, vulcanite, complete with waistband, three sizes: $1\frac{1}{2}$ in., $1\frac{3}{4}$ in. and 2 in. diameter of cup .. .. each

M1691 NAPIER'S STEM PESSARY, rubber, complete with waistband, five sizes: 2 in., $2\frac{1}{4}$ in., $2\frac{1}{2}$ in., $2\frac{3}{4}$ in. and 3 in. diameter of cup .. .. .. each



M1692

M1692 "SPIROID" STEM PESSARY, rubber, combination fluid cushion, complete with waistband, seven sizes: 2 in., $2\frac{1}{8}$ in., $2\frac{1}{4}$ in., $2\frac{3}{8}$ in., $2\frac{1}{2}$ in., $2\frac{5}{8}$ in. and $2\frac{3}{4}$ in. diameter of cup .. .. each

Ring Pessary Table:

Nos.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Dia.	2	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{5}{8}$	$2\frac{3}{4}$	$2\frac{7}{8}$	3	$3\frac{1}{8}$	$3\frac{1}{4}$	$3\frac{3}{8}$	$3\frac{1}{2}$	$3\frac{5}{8}$	in.



M1693



M1694



M1695

Cat. No.

M1693 WATCH SPRING PESSARY, rubber covered, $\frac{9}{16}$ in. thick, sizes: 1–14 (see table of sizes above) .. .. each

M1694 SORBO PESSARY, solid sorbo rubber, $\frac{9}{16}$ in. thick, sizes: 1–14 (see table of sizes above) .. .. each

M1695 WATCH SPRING PESSARY, combination fluid, rubber, $\frac{11}{16}$ in. thick, sizes: 1–14 (see table of sizes above) .. .. each

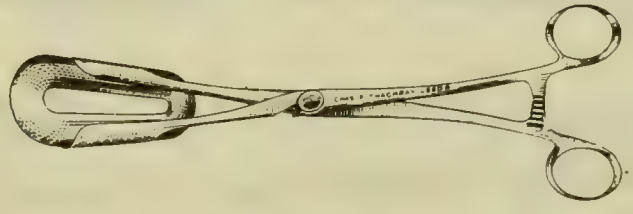
M1695A PLASTIC PLIABLE PESSARY, sizes: $2\frac{1}{4}$ in. to $3\frac{1}{2}$ in. .. .. each

M1695B SEMI-RIGID POLYTHENE PESSARY, sizes: 50, 53, 56, 59, 62, 65, 68, 71, 74, 80, 85 and 90 mm. .. .. each



M1696

M1696 INTRODUCER, for rubber ring pessaries, aluminium .. .. each



M1697

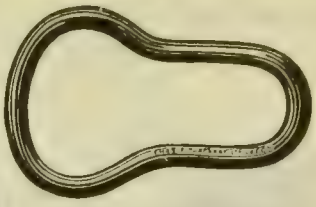
M1697 SHAW'S INTRODUCING FORCEPS, for rubber ring pessaries, take-off-joint, stainless steel .. .. each



M1698



M1699



M1700

Cat. No.

M1698 HEWITT'S PESSARY, vulcanite, $\frac{1}{4}$ in. thick, sizes: 1-14 (see table of sizes, page M311) .. .. each

M1698A Ditto .. amber celluloid, $\frac{5}{16}$ in. thick, 11 sizes: 50 mm. to 100 mm. diameter, each

M1699 HODGE'S PESSARY, vulcanite, $\frac{5}{16}$ in. thick .. .. .. each

Nos.	1	2	3	4	5	6	7	8	9	10	11	12	
Length	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{5}{8}$	$2\frac{3}{4}$	$2\frac{7}{8}$	3	$3\frac{1}{8}$	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{5}{8}$	$3\frac{3}{4}$	4	in.
Width	$1\frac{5}{16}$	$1\frac{3}{8}$	$1\frac{7}{16}$	$1\frac{1}{2}$	$1\frac{9}{16}$	$1\frac{5}{8}$	$1\frac{11}{16}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2	$2\frac{1}{16}$	$2\frac{1}{8}$	in.

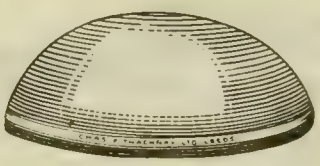
M1699A Ditto .. amber celluloid, $\frac{5}{16}$ in. thick, 9 sizes: 60 mm. to 100 mm. (length), each

M1700 SMITH-HODGE'S PESSARY, vulcanite, $\frac{5}{16}$ in. thick .. .. each

Nos.	1	2	3	4	5	6	7	8	9	10	11	12	
Length	50	55	60	65	70	75	80	85	90	95	100	105	mm.
Width	33	35	37	39	41	43	46	49	52	55	58	61	mm.



M1701



M1702



M1706

M1701 JESSOP HOSPITAL modified HODGE'S PESSARY, vulcanite, $\frac{3}{8}$ in. thick, extra broad .. .. each

Nos.	1	2	3	4	5	6	7	8	
Length	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{5}{8}$	$3\frac{3}{4}$	4	in.

M1702 "LAM-BUTT" CONTRACEPTIVE PESSARY, rubber, sizes: 50–90 mm. diameter, graduating in $2\frac{1}{2}$ mm. .. .. each

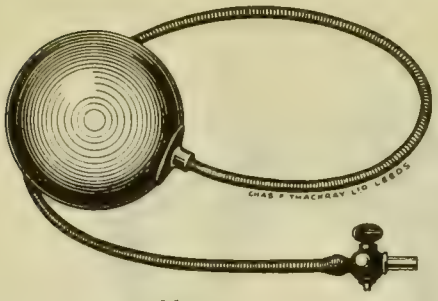
*M1703 Measuring Rings for above .. .. set

M1704 "ORTHO" CONTRACEPTIVE PESSARY, rubber, sizes: 60–90 mm. diameter, graduating in 5 mm. .. .. each

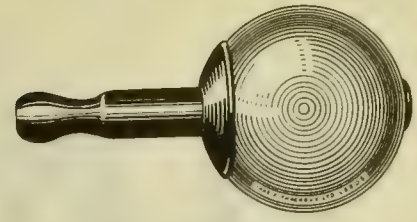
*M1705 Measuring Rings for above .. .. set

M1706 "WISHBONE" PESSARY, 14-ct. gold with gelatine capsule .. each

**Not illustrated*



M1707

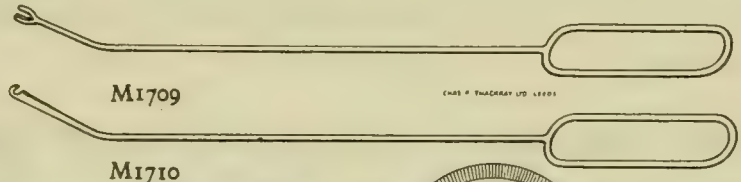


M1708

Cat. No.

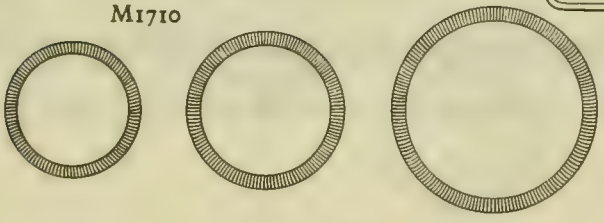
M1707 INFLATABLE BALL PESSARY, rubber, with vulcanite stopcock, sizes: 2 in., $2\frac{1}{8}$ in., $2\frac{1}{4}$ in., $2\frac{3}{8}$ in., $2\frac{1}{2}$ in., $2\frac{5}{8}$ in., and $2\frac{3}{4}$ in. diameter .. .. each

M1708 INFLATOR for above, rubber, with vulcanite stem to fit stopcock of ball pessary, each



M1709

M1710

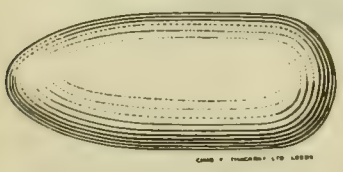


M1711

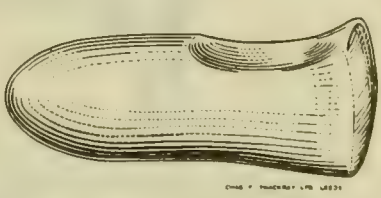
M1709 INTRODUCER, for Gräfenberg rings, stainless steel .. .. each

M1710 EXTRACTOR, for Gräfenberg rings, stainless steel .. .. each

M1711 GRÄFENBERG'S RINGS, spiral silver wire on catgut-core, three sizes: small, medium and large .. .. each



M1712



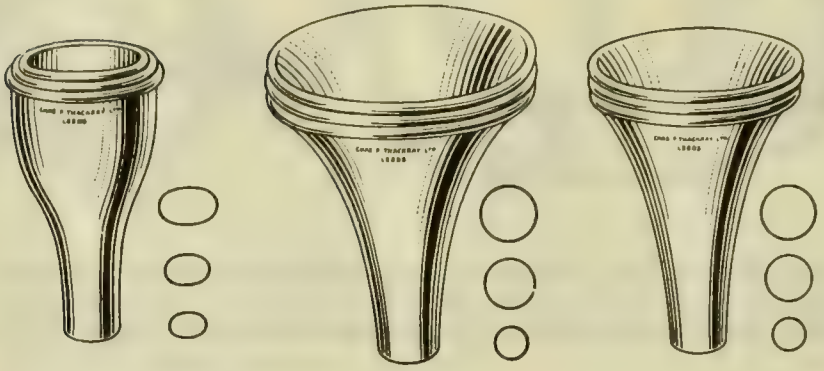
M1713

M1712 McINDOE'S VAGINAL MOULD, acrylic plastic, for inlay graft, in the treatment of congenital absence of vagina, standard size .. .. .. each

M1713 McINDOE'S VAGINAL DILATOR, acrylic plastic, for the post-operative treatment of congenital absence of vagina, standard size .. .. .. each

Vide "The Treatment of congenital absence and obliterative conditions of the Vagina" by Sir Archibald McIndoe, British Journal of Plastic Surgery, Vol. 2, Jan., 1949, page 267.

NOTE.—Special sizes can be made to order.



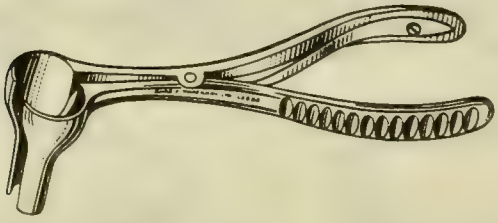
A1714 A1715 A1716

Cat. No.

A1714 GRUBER'S AURAL SPECULA, with oval ends, set of three, †silver plated, per set

A1715 PRITCHARD'S AURAL SPECULA, with round ends, set of three, †silver plated, per set

A1716 TOYNBEE'S AURAL SPECULA, with round ends, set of three, †silver plated, per set

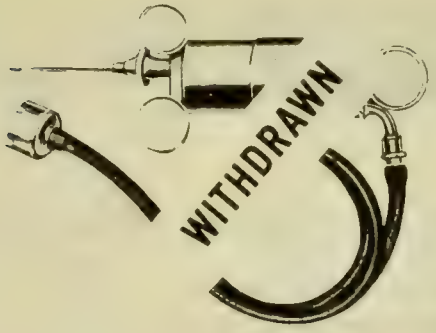


A1717

A1717 KRAMER'S AURAL SPECULUM, stainless steel .. .. .. each

†*Can be supplied made of Sterling Silver, at extra cost.*

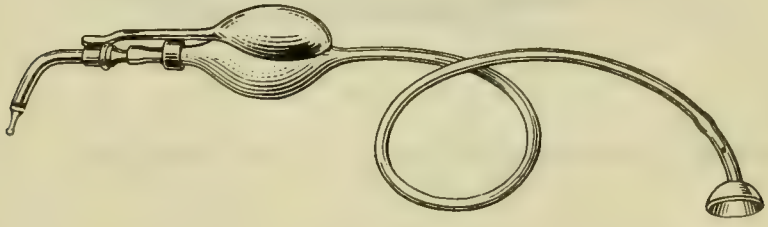
NOTE.—Auriscopes, Diagnostic Sets, Headmirrors, Headlamps and Examination Lamps: see Catalogue Section of Clinical Diagnosis Instruments.



A1718

Cat. No.

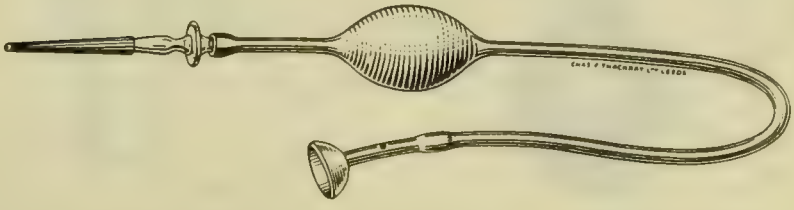
A1718 AUTOMATIC AURAL SYRINGE, continuous-flow, consisting of: chromium plated syringe and nozzle, rubber tube and metal sinker .. .. each



A1719

A1719 BACON'S AURAL SYRINGE, continuous-flow, consisting of: rubber bulb and sucker, chromium plated nozzle and spoon shaped attachment .. .. each

The spoon shaped attachment fits partly over the rubber bulb and provides a firm wall against which the bulb is compressed.



A1720

A1720 WYATT WINGRAVE'S AURAL SYRINGE, consisting of: rubber bulb and sucker, glass mount and rubber nozzle .. .. each



A1721



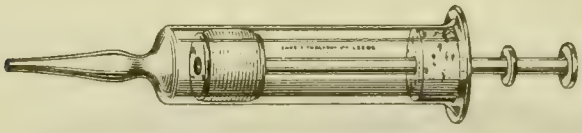
A1722-3

Cat. No.

A1721 AURAL SYRINGE, all-metal, washerless, with conical nozzle (A), chromium plated, capacity: 2 oz., 3 oz. and 4 oz. .. .. each

A1722 Spare Nozzles, Abernethy's, conical (A) .. .. each

A1723 Ditto .. Toynbee's, olivary (B) .. .. each

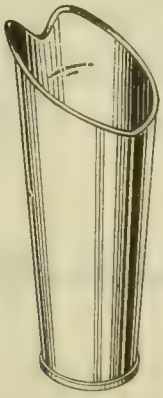


A1724

A1724 HEATH'S AURAL SYRINGE, all-glass, 2 oz., cotton covered piston .. each



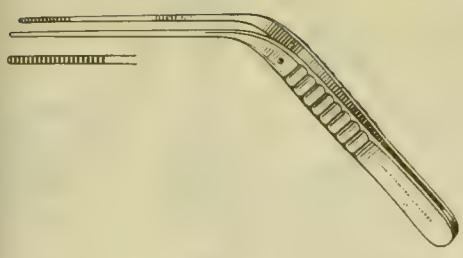
A1725



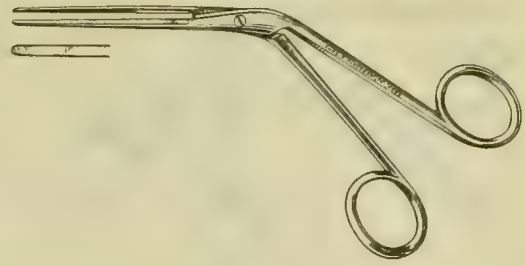
A1726

A1725 AURAL SYRINGE, all-rubber, 2 oz. .. .. each

A1726 NOOTT'S EAR TANK, chromium plated .. .. .. each



A1727

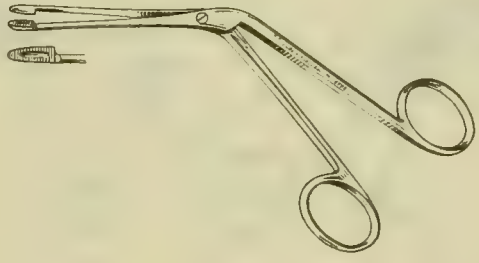


A1728

Cat. No.

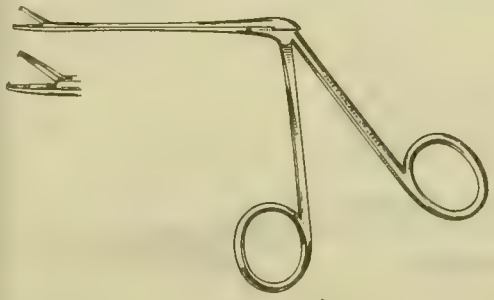
A1727 CUMBERBATCH'S AURAL FORCEPS (Keen's with *serrated* jaws), stainless steel .. .. each

A1728 STANLEY GREEN'S AURAL FORCEPS, with smooth jaws, screw joint, stainless steel .. .. each

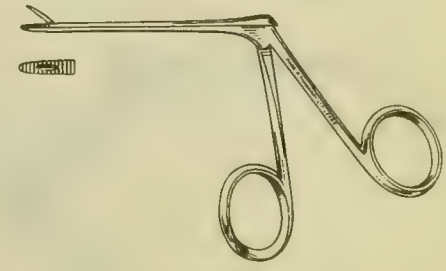


A1729

A1729 HARTMANN'S AURAL FORCEPS, with serrated jaws, screw joint, stainless steel .. .. each



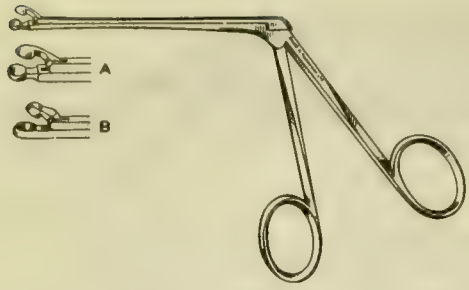
A1730



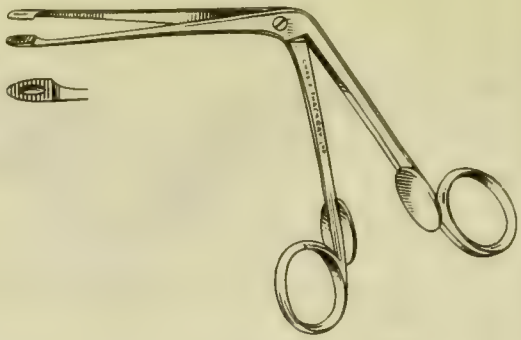
A1731

A1730 HARTMANN'S AURAL FORCEPS, with one into two teeth, crocodile action, stainless steel .. .. each

A1731 HARTMANN'S AURAL FORCEPS, with serrated jaws, crocodile action, stainless steel .. .. each



A1732–3



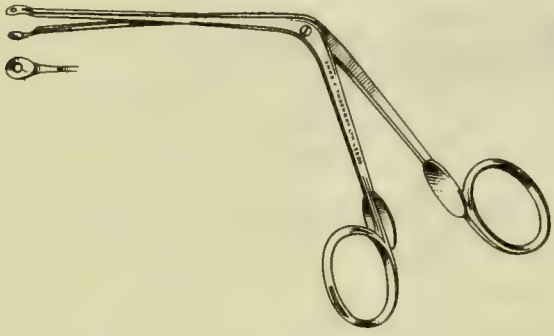
A1734

Cat. No.

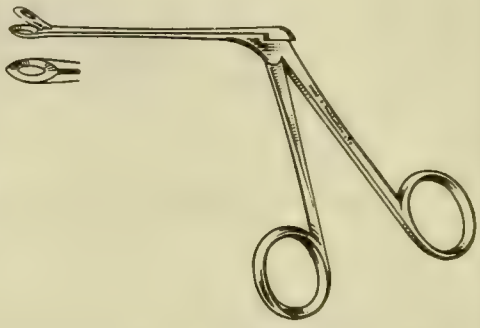
A1732 HARTMANN'S AURAL FORCEPS, with cup shaped jaws (A), crocodile action, stainless steel .. .. each

A1733 Ditto .. with punch jaws (B) .. .. each

A1734 HEATH'S AURAL FORCEPS, with serrated jaws, and lifters on shanks, screw joint, stainless steel .. .. each



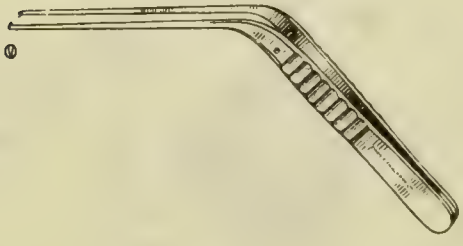
A1735



A1736

A1735 HEATH'S AURAL FORCEPS, with fenestrated scoop jaws, and lifters on shanks, cut-through joint, stainless steel .. .. each

A1736 HENCKEL'S AURAL FORCEPS, with fenestrated scoop jaws, crocodile action, stainless steel .. .. each



A1737

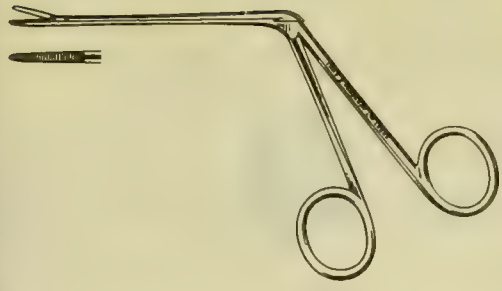


A1738

A1737 KEEN'S AURAL FORCEPS, with one into two teeth, stainless steel .. each

Keen's without teeth: see Cumberbatch's, Fig. A1727.

A1738 LUCAE'S (or Fagge's) AURAL FORCEPS, with serrated jaws, stainless steel, each.



A1739

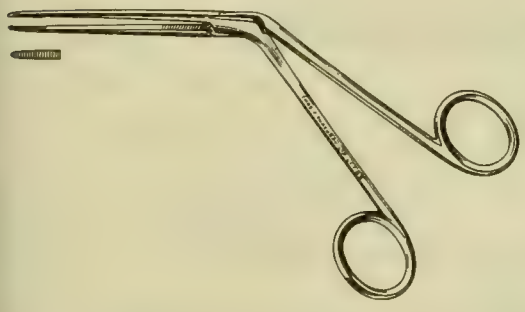


A1740

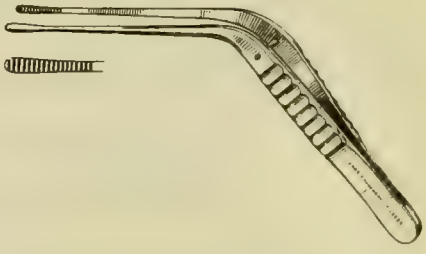
Cat. No.

A1739 MATHIEU'S AURAL FORCEPS, with serrated jaws, crocodile action, stainless steel .. .. each

A1740 POLITZER'S AURAL FORCEPS, with serrated jaws, stainless steel .. each



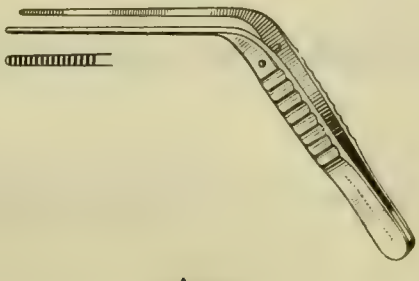
A1741



A1742

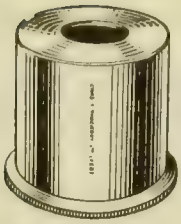
A1741 TILLEY'S (or "Golden Square") AURAL FORCEPS, with serrated jaws, box joint, stainless steel .. .. each

A1742 HUNTER TOD'S AURAL FORCEPS, with serrated jaws, stainless steel, each



A1743

A1743 WILDE'S AURAL FORCEPS, with serrated jaws, stainless steel .. each



A1744

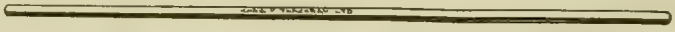


A1745

Cat. No.

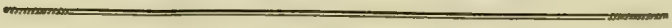
A1744 COTTON WOOL HOLDER, chromium plated .. .. .. each

A1745 GLASS WELL, assorted colours .. .. each



A1746

A1746 AURAL PROBES, wood, 6 in., in boxes of 72 doz. .. .. per box



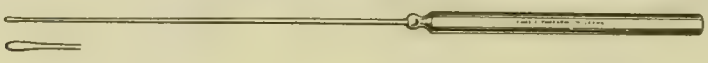
A1747

A1747 AURAL PROBE, malleable metal, threaded ends, 7 in. long .. each



A1748

A1748 BRONNER'S AURAL PROBE, malleable, 3¼ in. shaft, threaded end, silver, each



A1749

A1749 HEATH'S AURAL PROBE, malleable, 4½ in. shaft, olivary tip, silver plated, each

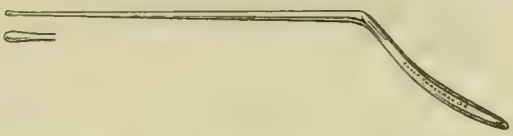


A1750

Cat. No.

A1750 HEATH'S AURAL PROBE, malleable, 4½ in. shaft, threaded end, silver plated, each

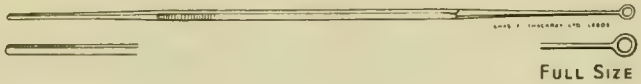
A1751 Ditto .. 2¾ in. shaft .. .. each



A1752

A1752 JOBSON HORNE'S AURAL PROBE, malleable, 4 in. shaft, olivary tip, silver plated .. .. each

A1753 Ditto .. 5½ in. shaft .. .. each

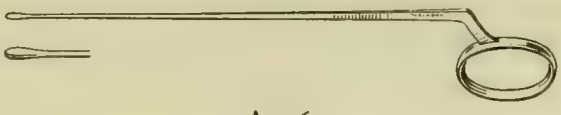


FULL SIZE

A1755

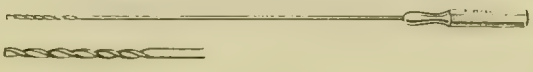
A1754 JOBSON HORNE'S AURAL PROBE, 5½ in. long, serrated end and loop end, stainless steel .. .. each

A1755 Ditto .. 7 in. long .. .. each



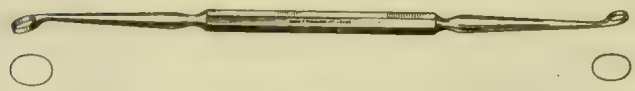
A1756

A1756 DAN McKENZIE'S AURAL PROBE, malleable end, 5 in. shaft, olivary tip, stainless steel .. .. each



A1757

A1757 LOGAN TURNER'S AURAL PROBE, malleable, 4½ in. shaft, threaded end, silver plated .. .. each



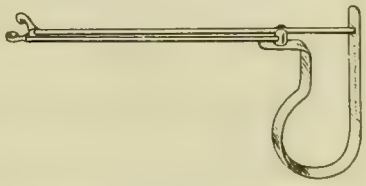
A1758

Cat. No.
A1758 BARKER'S AURAL CURETTE, stainless steel .. .. .. each



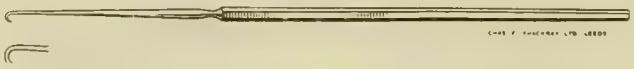
A1759

A1759 GARDINER BROWNE'S AURAL HOOK, with IMRAY'S LOOP, stainless steel .. .. each



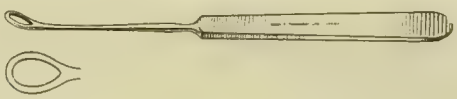
A1760

A1760 GUY'S HOSPITAL PATTERN AURAL FORCEPS, cup-shaped jaws, stainless steel .. .. each



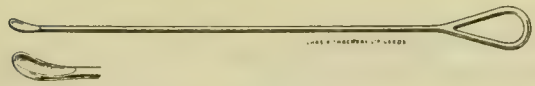
A1761

A1761 HARTMANN'S AURAL HOOK, stainless steel .. .. .. each



A1762

A1762 IMRAY'S AURAL LOOP, stainless steel .. .. each



A1763

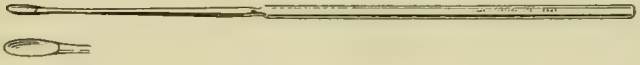
Cat. No.

A1763 JOBSON'S AURAL SCOOP, stainless steel .. .. .. each



A1764

A1764 LISTER'S AURAL HOOK, with IMRAY'S LOOP, stainless steel .. each



A1765

A1765 DAN McKENZIE'S AURAL SCOOP, stainless steel .. .. each



A1766

A1766 MACKENZIE'S AURAL SCOOP, sharp, stainless steel, three sizes: A, B and C .. .. each



A1767

A1767 QUIRE'S AURAL CURETTE, stainless steel .. .. .. each

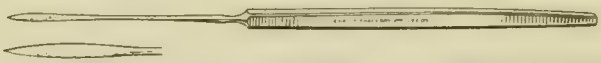
Invaluable for removing round foreign bodies.



A1768

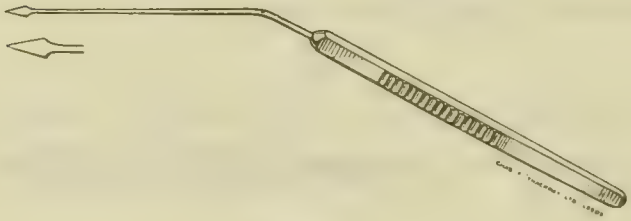
Cat. No.

A1768 MYRINGOTOME, bayonet-shaped, stainless steel .. .. .. each



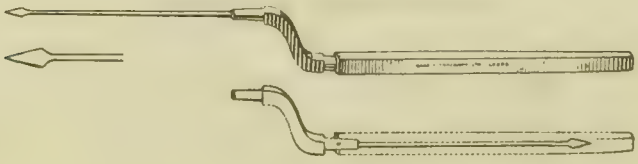
A1769

A1769 HINTON'S MYRINGOTOME, stainless steel .. .. .. each



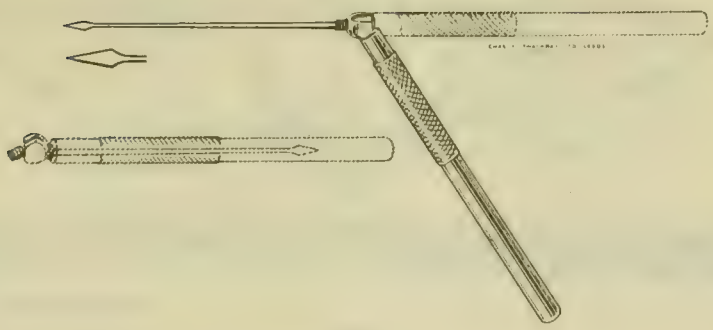
A1770

A1770 POLITZER'S MYRINGOTOME, stainless steel .. .. .. each



A1771

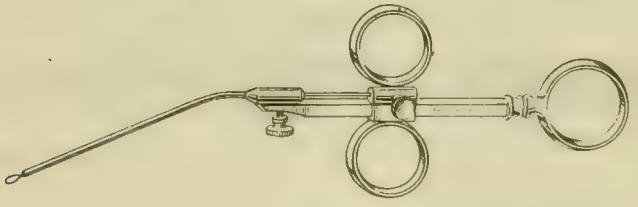
A1771 POLITZER'S MYRINGOTOME, stainless steel, chromium plated handle (reversible as a case) .. .. each



A1772

Cat. No.

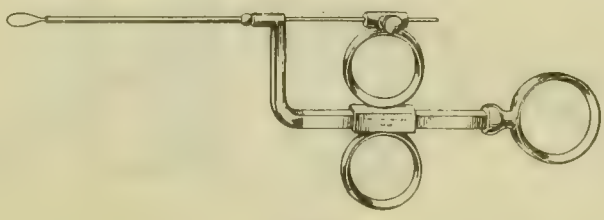
A1772 DOUBLE-ANGLE MYRINGOTOME, stainless steel, chromium plated handle (reversible as a case) .. .. each



A1773

A1773 BALLANCE'S AURAL SNARE, stainless steel shaft and stilette, chromium plated handle and mounts .. .. each

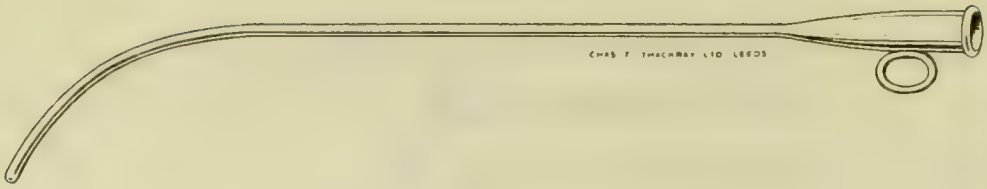
A1774 Spare Snare Wire for above .. .. per hank



A1775

A1775 GLEGG'S AURAL SNARE, stainless steel shaft and stilette, chromium plated handle and mounts .. .. each

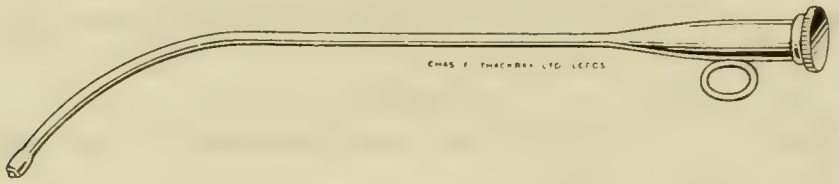
A1776 Spare Snare Wire for above .. .. per hank



A1777

Cat. No.

A1777 KRAMER'S EUSTACHIAN CATHETER, †silver plated, sizes: 7, 8, 9, 10 and 11 French Catheter Gauge, Luer fitting .. .. each



A1778

A1778 WOAKE'S EUSTACHIAN CATHETER, with stilette, †silver plated, sizes: 7, 8, 9, 10 and 11 French Catheter Gauge, Luer fitting .. .. .. each



A1779

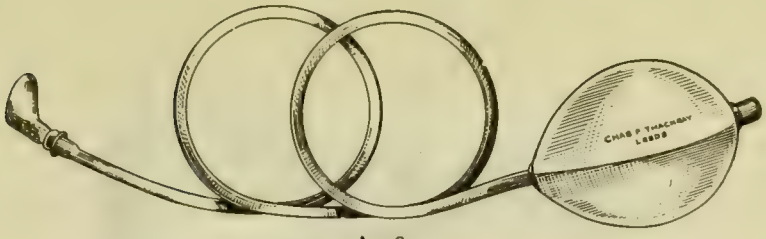
A1779 WEBER-LIEL'S EUSTACHIAN TUBE, for use through eustachian catheters, gum-elastic, three sizes: 3, 4 and 5 French Catheter Gauge .. .. each



A1780

A1780 TOYNBEE'S AUSCULTATION TUBE, rubber, with vulcanite mounts, each

†Can be supplied made of Sterling Silver, at extra cost.



A1781

Cat. No.

A1781 GARDINER BROWNE'S POLITZERISATION APPARATUS, rubber, 4 oz., with angled rubber nozzle on Luer fitting vulcanite mount, for eustachian catheter, each

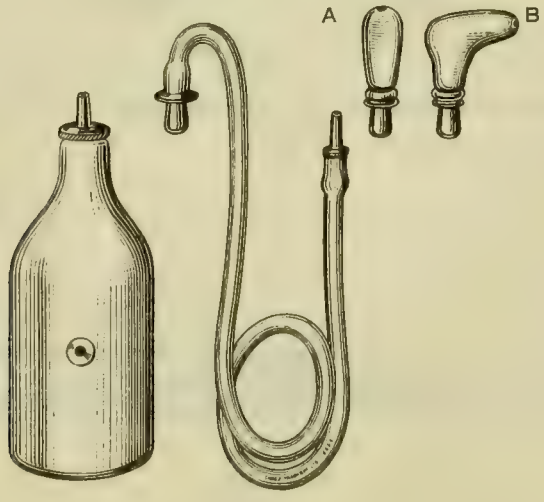
A1782 Spare Rubber Nozzles .. .. each



A1783

A1783 LENNOX BROWNE'S POLITZERISATION APPARATUS, rubber, 4 oz., with straight rubber nozzle on Luer fitting vulcanite mount, for eustachian catheter, each

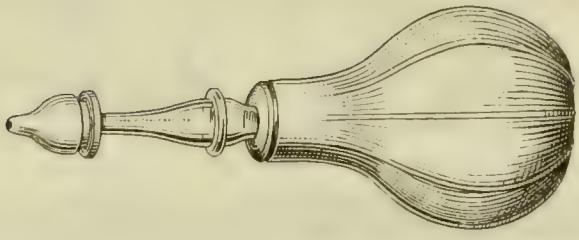
A1784 Spare Rubber Nozzles .. .. each



A1785

A1785 POLITZER'S POLITZERISATION APPARATUS, rubber, 8 oz., with rubber tube, Luer fitting vulcanite mounts and one each straight (A) and angled (B) rubber nozzles .. .. each

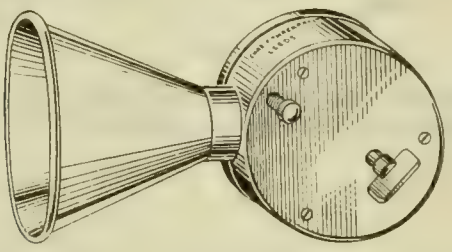
A1786 Spare Rubber Nozzles: A and B .. .. each



A1787

Cat. No.

A1787 TILLEY'S POLITZERISATION SYRINGE, 4 oz., with glass connection and rubber acorn nozzle .. .. each



A1788

A1788 BARANY'S NOISE APPARATUS, chromium plated .. .. each

*A1788A Ditto .. with vulcanite nozzle, not funnel .. .. .. each



A1789

A1789 DUNDAS-GRANT'S TUBE, for labyrinth test .. . each

*A1790 Double Bellows for above, rubber .. .. each

**Not illustrated*

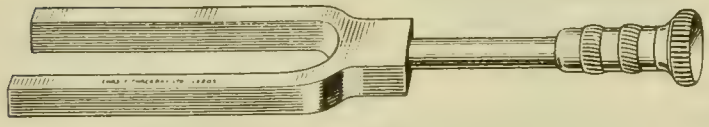


A1791

Cat No.

A1791 GARDINER BROWNE'S TUNING FORKS, nickel plated:

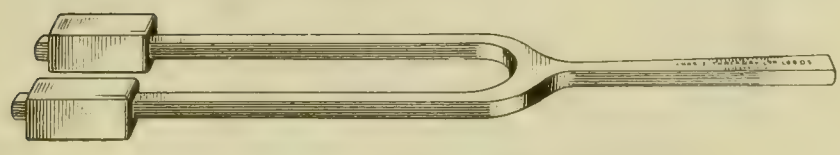
Tone	Co	C1	C2	C3	C4	C5
Vibrations per sec. ..	128	256	512	1024	2048	4096
each ..						



A1792

A1792 HARTMANN'S TUNING FORKS, nickel plated:

Tone	Co	C1	C2	C3	C4	G4	C5
Vibrations per sec. ..	128	256	512	1024	2048	3072	4096
each ..							



A1793

A1793 HARTMANN'S TUNING FORKS, low tone, nickel plated:

Tone	C	C	C	C
Vibrations per sec.	16	32	64	128
each				

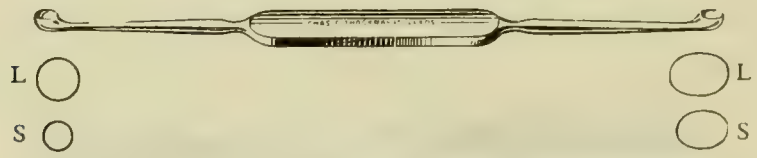


A1794–5

Cat. No.

A1794 BALLANCE'S MASTOID SCOOP AND CURETTE, large, 9¼ in., stainless steel .. .. each

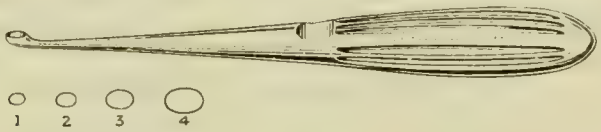
A1795 Ditto .. Small .. .. each



A1796–7

A1796 HEATH'S MASTOID SCOOP, large, 7¾ in., stainless steel .. each

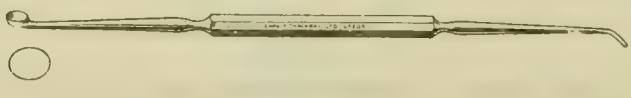
A1797 Ditto .. Small .. .. each



A1798

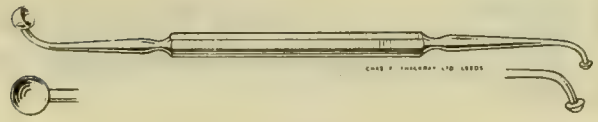
A1798 LEMPERT'S MASTOID SCOOP, 6½ in., stainless steel, chromium plated handle, four sizes: 1, 2, 3 and 4 .. .. each

A1799 Ditto .. 8 in. .. .. each



A1800

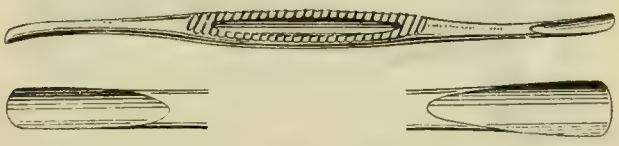
A1800 MACEWEN'S MASTOID SCOOP AND SEEKER, 7 in., stainless steel, each



A1801

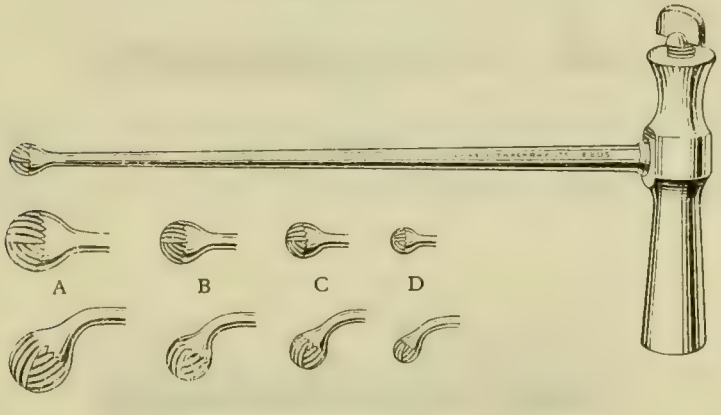
Cat. No.

A1801 STILES' MASTOID SCOOP AND SEEKER, $6\frac{1}{2}$ in., stainless steel .. each



A1802

A1802 HEATH'S PERICRANIAL ELEVATOR, $6\frac{3}{4}$ in., stainless steel .. each

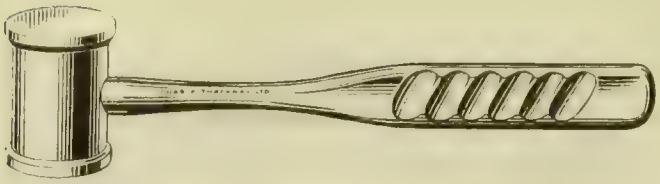


A1803

A1803 HEATH'S MASTOID BURRS, consisting of: four each straight and angled stainless steel burrs fitting one chromium plated handle .. .. set

A1804 Burrs only, straight and angled, four sizes: A, B, C and D .. each

A1805 Handle only .. .. each



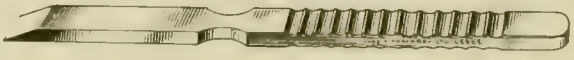
A1806

Cat. No.
A1806 MALLET, solid stainless steel, $\frac{3}{4}$ lb., diameter of head: $1\frac{3}{8}$ in. .. .. each



A1807

A1807 HEATH'S MALLET, solid copper, 18 oz., diameter of head: $1\frac{3}{8}$ in., silver plated, each
A1808 Ditto .. 28 oz., diameter of head: $1\frac{3}{4}$ in. .. .. .. each



A1809

A1809 MASTOID CHISEL, †stainless steel, four sizes: $\frac{1}{4}$ in., $\frac{5}{16}$ in., $\frac{3}{8}$ in. and $\frac{7}{16}$ in. wide, each



A1810

A1810 JENKINS' MASTOID CHISEL, †stainless steel, six sizes: 2 mm., 4 mm., 6 mm., 8 mm., 10 mm. and 12 mm. wide .. .. each

†Correct grade for eage instruments.



A1811

Cat. No.

A1811 MASTOID GOUGE, †stainless steel, four sizes: $\frac{1}{4}$ in., $\frac{5}{16}$ in., $\frac{3}{8}$ in. and $\frac{7}{16}$ in. wide, each



A1812

A1812 ALEXANDER'S MASTOID GOUGE, †stainless steel, six sizes: 4 mm., 6 mm., 8 mm., 10 mm., 12 mm. and 14 mm. wide .. .. .. each



A1813

A1813 BALLANCE'S MASTOID GOUGE, straight-edged, †stainless steel, six sizes: 4 mm., 6 mm., 8 mm., 10 mm., 12 mm. and 14 mm. wide .. each



A1814

A1814 HEATH'S MASTOID GOUGE, fluted handle, †stainless steel, six sizes: 3 mm., 4 mm., 5 mm., 6 mm., 7 mm. and 8 mm. wide .. .. .. each

†*Correct grade for edge instruments.*



A1815

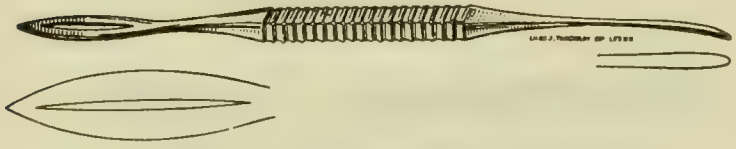
Cat. No.

A1815 HEATH'S MASTOID GOUGE, grooved handle, †stainless steel, six sizes: 3 mm., 4 mm., 5 mm., 6 mm., 7 mm. and 8 mm. wide .. .. .. each



A1816

A1816 JENKINS' MASTOID GOUGE, †stainless steel, five sizes: 3 mm., 4 mm., 6 mm., 8 mm. and 10 mm. wide .. .. each



A1817

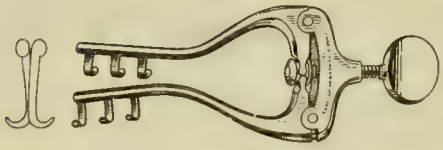
A1817 DURHAM'S DISSECTOR-RASPATORY, 7½ in., stainless steel .. each



A1818

A1818 BALLANCE'S MASTOID RETRACTOR, 8 in. long, ⅞ in. wide blade, sharp prongs, stainless steel .. .. each

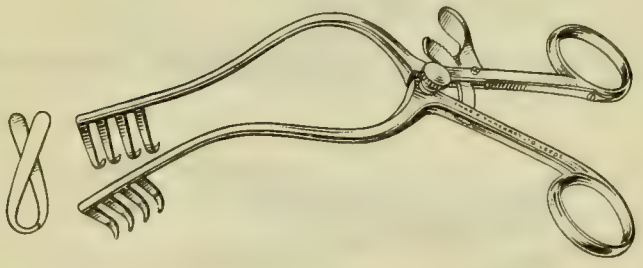
†*Correct grade for edge instruments.*



A1819

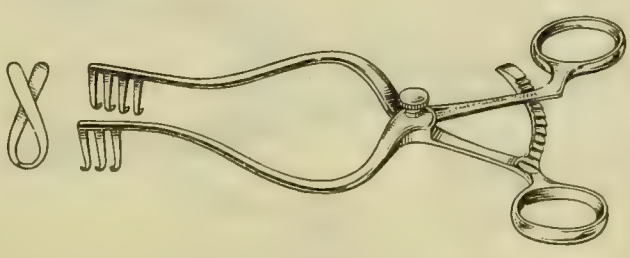
Cat. No.

A1819 JANSEN'S MASTOID RETRACTOR, blunt prongs, stainless steel .. each



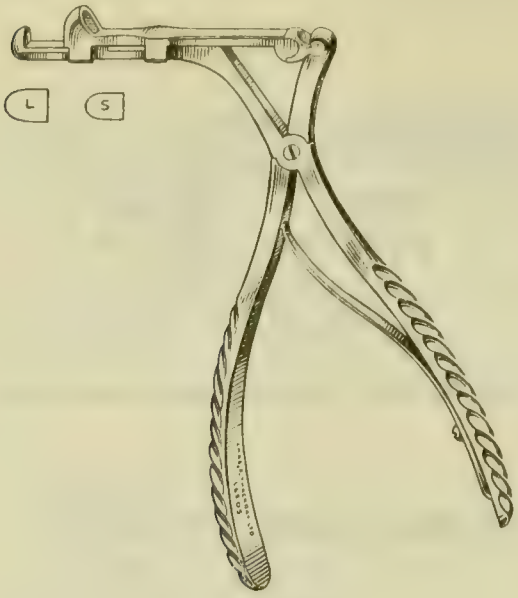
A1820

A1820 MOLLISON'S MASTOID RETRACTOR, sharp prongs, with cam-ratchet, stainless steel .. .. each



A1821

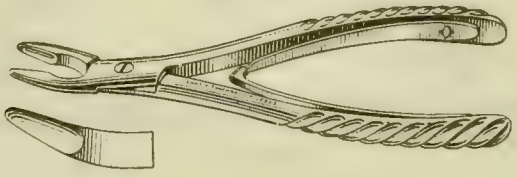
A1821 WEST'S MASTOID RETRACTOR, sharp prongs, stainless steel .. each



A1822

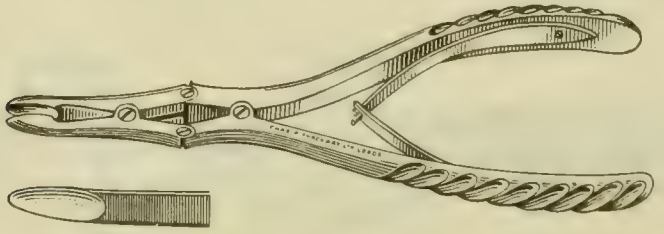
Cat. No.

A1822 CITELLI'S GOUGE FORCEPS, stainless steel, two sizes: large and small, each



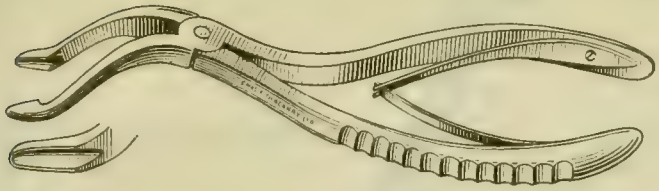
A1823

A1823 "GLASGOW PATTERN" GOUGE FORCEPS, screw joint, 5¾ in., stainless steel .. .. each



A1824

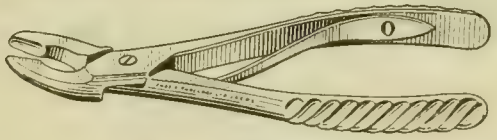
A1824 JANSEN'S (or Luer's) GOUGE FORCEPS, multiple-action joints, 7½ in., stainless steel .. .. each



A1825

Cat. No.

A1825 JANSEN'S GOUGE FORCEPS, double curved, screw joint, 7 in., stainless steel, each



A1826

A1826 WILM'S GOUGE FORCEPS, screw joint, 8 in., stainless steel .. each



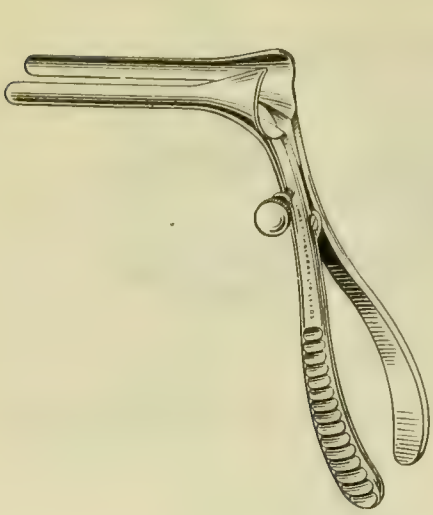
A1827

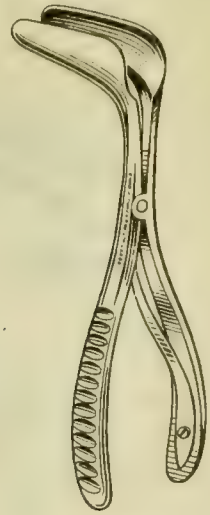
A1827 DUNDAS-GRANT'S SEEKER, stainless steel .. .. .. each



A1828

A1828 STAÈCKE'S GUIDE, stainless steel .. .. each



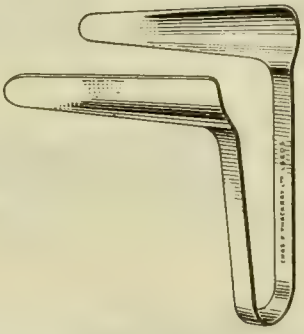


N1829 N1830

Cat. No.

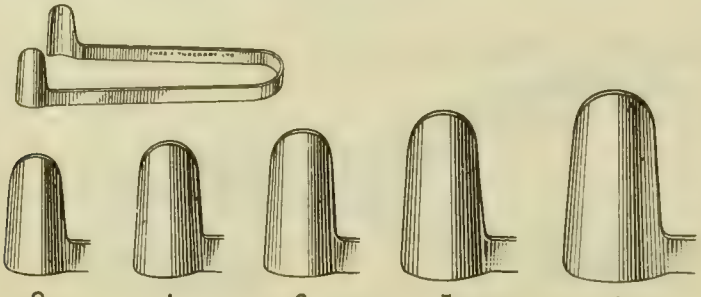
N1829 KILLIAN'S NASAL SPECULUM, stainless steel, three sizes: 5·5 cm., 7·5 cm. and 9 cm. length of blade .. .. each

N1830 JOBSON HORNE'S NASAL SPECULUM, stainless steel .. .. each



N1831

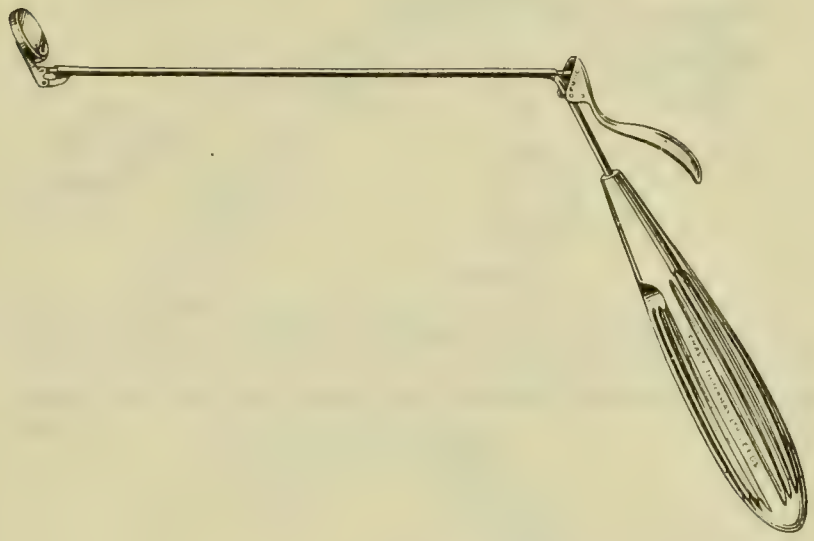
N1831 ST. CLAIR THOMSON'S NASAL SPECULUM, stainless steel, three sizes: 1½ in., 2 in. and 2½ in. length of blade .. .. each



N1832

N1832 THUDICHUM'S NASAL SPECULUM, stainless steel, five sizes: 0, 1, 2, 3 and 4, each

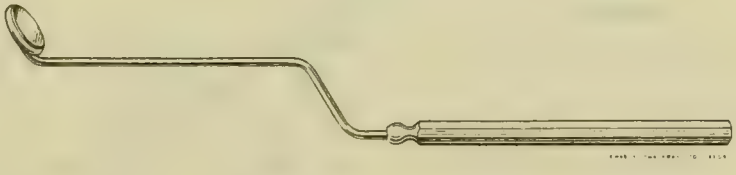
NOTE.—Diagnostic Sets, Headmirrors, Headlamps and Examination Lamps: see Catalogue section o Clinical Diagnosis Instruments.



N1833

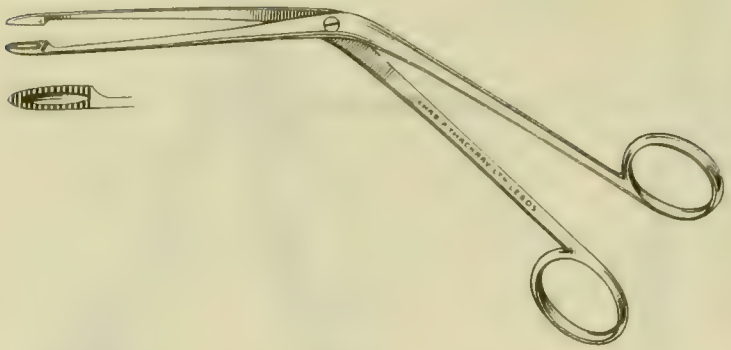
Cat. No.

N1833 MICHEL'S NASAL MIRROR, glass, boilable, chromium plated, three sizes: 10 mm., 12 mm. and 14 mm. diameter .. .. each



N1834

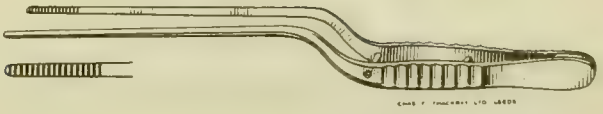
N1834 ST. CLAIR THOMSON'S NASAL MIRROR, glass, boilable, chromium plated, six sizes: 6 mm., 8 mm., 10 mm., 12 mm., 14 mm. and 16 mm. diameter .. each



N1835

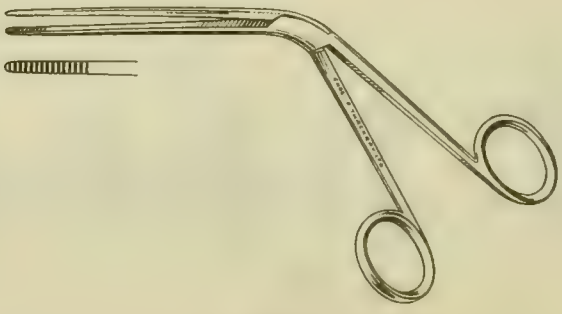
Cat. No.

N1835 HARTMANN'S NASAL FORCEPS, with serrated jaws, screw joint, stainless steel .. .. each



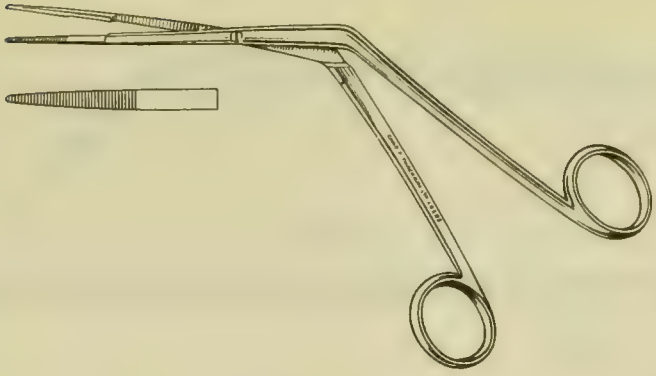
N1836

N1836 LUCAE'S NASAL DRESSING FORCEPS, with serrated jaws, stainless steel, each



N1837

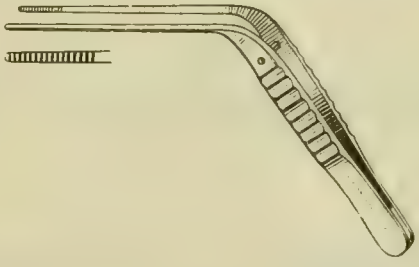
N1837 TILLEY'S NASAL DRESSING FORCEPS, with serrated jaws, box joint, stainless steel .. .. each



N1838

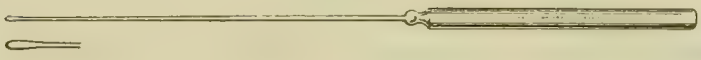
Cat. No.

N1838 WEST'S NASAL DRESSING FORCEPS, with serrated jaws, screw joint, stainless steel .. .. each



N1839

N1839 WILDE'S NASAL DRESSING FORCEPS, with serrated jaws, stainless steel, each



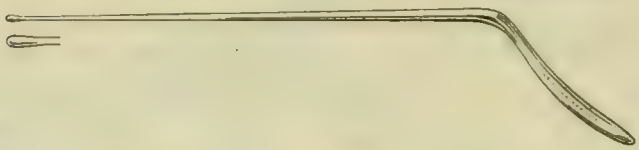
N1840

N1840 HEATH'S NASAL PROBE, malleable, 4½ in. shaft, olivary tip, silver plated, each



N1841

N1841 HEATH'S NASAL PROBE, malleable, 4½ in. shaft, threaded end, silver plated, each

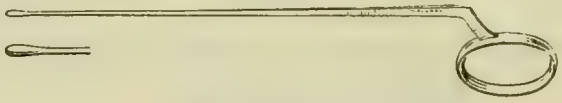


N1842

Cat. No.

N1842 JOBSON HORNE'S NASAL PROBE, malleable, 5½ in. shaft, olivary tip, silver plated .. .. each

N1843 Ditto .. 7 in. shaft .. .. each



N1844

N1844 DAN McKENZIE'S NASAL PROBE, malleable end, 5 in. shaft, olivary tip, stainless steel .. .. each

N1845 Ditto .. 7 in. shaft .. .. each



N1846

N1846 LOGAN TURNER'S NASAL PROBE, malleable, 4½ in. shaft, threaded end, silver plated .. .. each



N1847

1847 HILL'S NASAL RASPATORY, stainless steel .. .. .. each



N1848

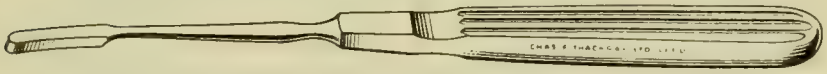
Cat. No.

N1848 HOWARTH'S NASAL RASPATORY, stainless steel .. .. each



N1849

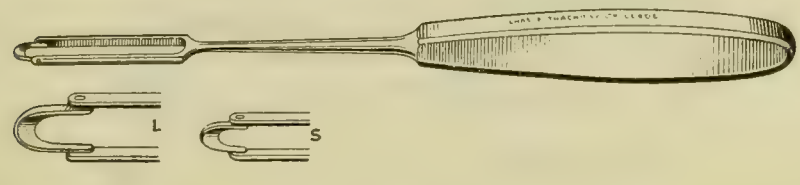
N1849 NASAL RASPATORY, fine, stainless steel, chromium plated handle .. each



N1850

N1850 JOSEPH'S NASAL RASPATORY, curved, stainless steel, chromium plated handle .. .. each

N1851 Ditto .. straight .. .. each



N1852

N1852 BALLENGER'S NASAL SWIVEL KNIFE, stainless steel, chromium plated handle, two sizes: small and large .. .. each



N1853

Cat. No.

N1853 DUNDAS GRANT'S NASAL KNIFE, nickel plated .. .. each



N1854

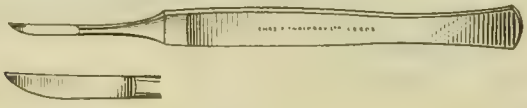
N1854 JOSEPH'S NASAL KNIFE, probe-ended, nickel plated, chromium plated handle, each



N1855

N1855 JOSEPH'S NASAL KNIFE, curved-on-flat, double-edged, nickel plated, chromium plated handle .. .. each

N1856 Ditto .. straight .. .. each



N1857

N1857 DAN McKENZIE'S NASAL KNIFE, nickel plated .. .. each



N1858

Cat. No.

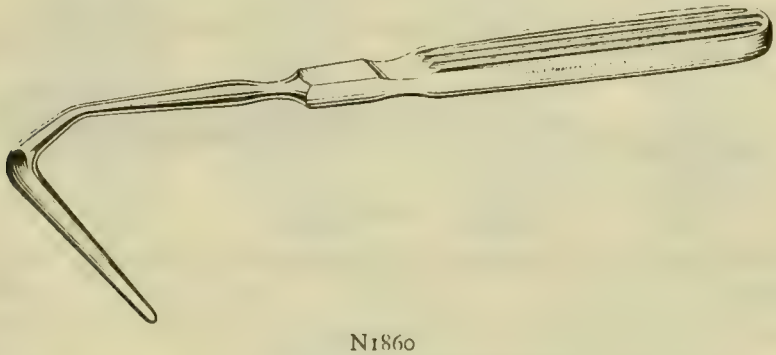
N1858 MALTZ' NASAL RASP, straight, stainless steel, chromium plated handle each



N1859

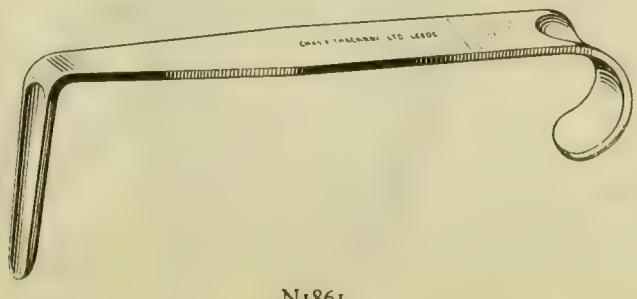
N1859 MALTZ' NASAL RASP, curved, stainless steel, chromium plated handle each

N1859A Ditto .. straight .. .. each



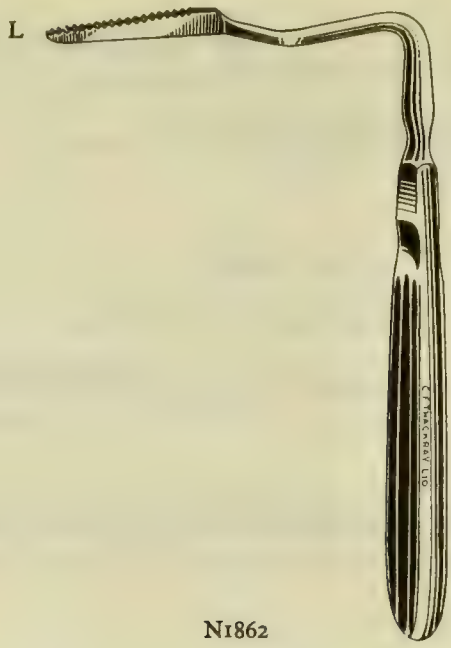
N1860

N1860 AUFRICHT'S NASAL RETRACTOR, stainless steel, chromium plated handle, each



N1861

N1861 KILNER'S NASAL RETRACTOR, stainless steel .. .. each



N1862

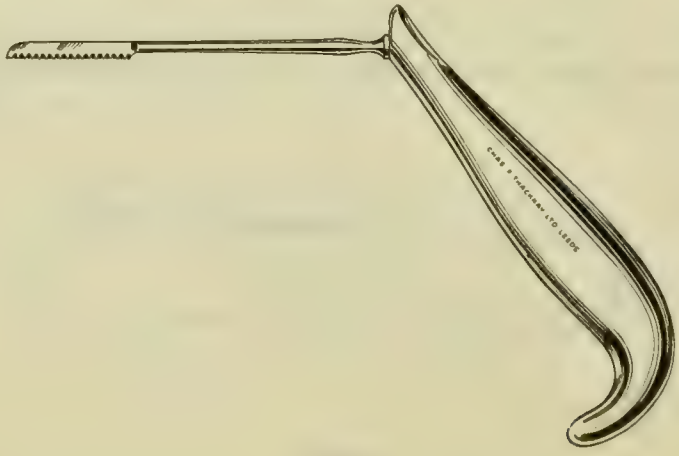
Cat. No.

N1862 JOSEPH'S NASAL SAW, angled, stainless steel, chromium plated handle, two patterns: right and left .. .. each



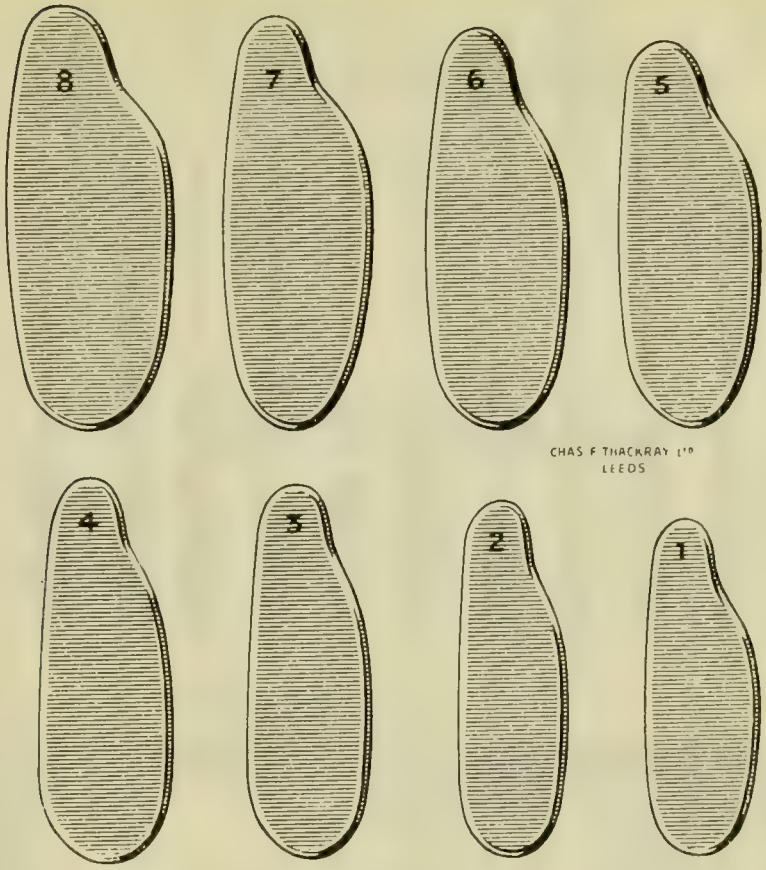
N1863

N1863 JOSEPH'S NASAL SAW, stainless steel, chromium plated handle, two patterns: right and left .. .. each



N1864

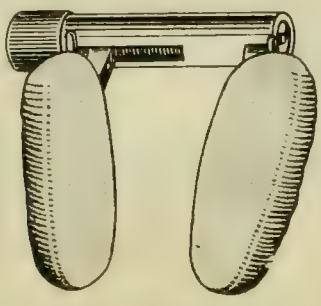
N1864 MOWLEM'S NASAL SAW, stainless steel, chromium plated handle .. each



N1865

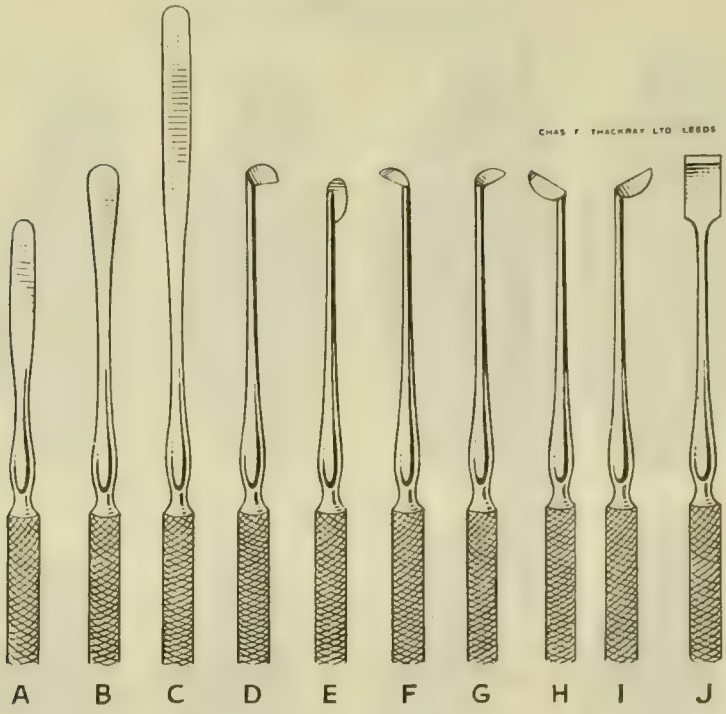
Cat. No.

N1865 LAKE'S NASAL SPLINTS, rubber, eight sizes: 1, 2, 3, 4, 5, 6, 7 and 8, each



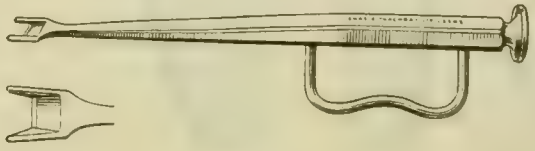
N1866

N1866 SAFIAN'S NASAL SPLINT, screw-action, chromium plated, leather covered pads, complete with webbing strap .. .. each



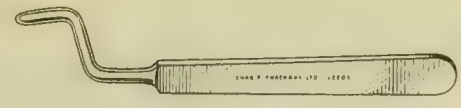
N1867

Cat. No.		
N1867	FREER'S NASAL SEPTUM SET for submucous resection, consisting of instruments: A—blunt and sharp, B—blunt and sharp, C—blunt and sharp, D, E, F, G, H, I and J, stainless steel, in khaki wrap	complete
N1868	Septum Elevator (A), straight, sharp edge, stainless steel	each
N1869	Ditto .. blunt edge	each
N1870	Septum Elevator (B), curved, sharp edge, stainless steel	each
N1871	Ditto .. blunt edge	each
N1872	Septum Elevator (C), curved, long, sharp edge, stainless steel	each
N1873	Ditto .. blunt edge	each
N1874	Septum Knife (D), straight, straight edge, stainless steel	each
N1875	Septum Knife (E), straight, round edge, stainless steel	each
N1876	Septum Knife (F), angled blade, right, straight edge, stainless steel ..	each
N1877	Ditto .. left (G)	each
N1878	Septum Knife (H), angled blade, right, round edge, stainless steel ..	each
N1879	Ditto .. left (I)	each
N1880	Septum Chisel (J), straight, stainless steel	each



N1881

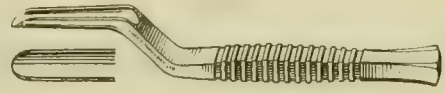
N1881	WATSON-WILLIAMS' NASAL CHISEL, stainless steel	each



N1882

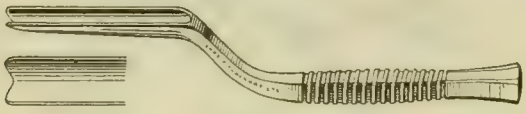
Cat. No.

N1882 KILLIAN'S NASAL SEPARATOR, stainless steel, three sizes: $\frac{1}{2}$ in., $\frac{3}{4}$ in. and 1 in. blade .. .. each



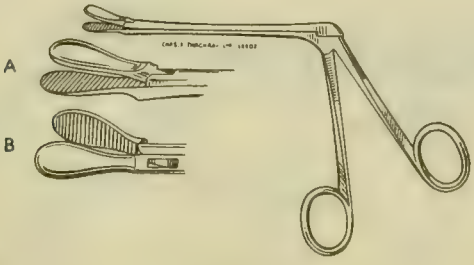
N1883

N1883 KILLIAN'S NASAL GOUGE, stainless steel .. .. .. each



N1884

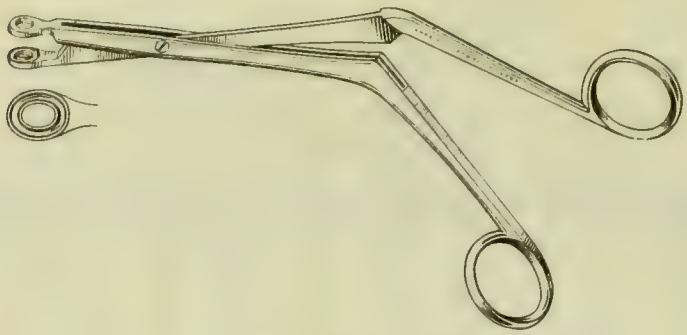
N1884 TILLEY'S NASAL GOUGE, stainless steel .. .. .. each



N1885–6

N1885 BLAKESLEY'S NASAL SEPTUM FORCEPS, avulsion, upward-action jaw (A), stainless steel .. .. each

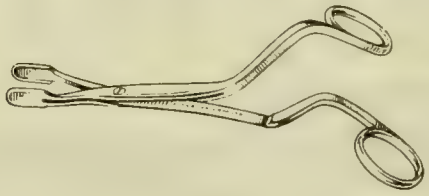
N1886 Ditto .. side-action jaw (B) .. .. each



N1887

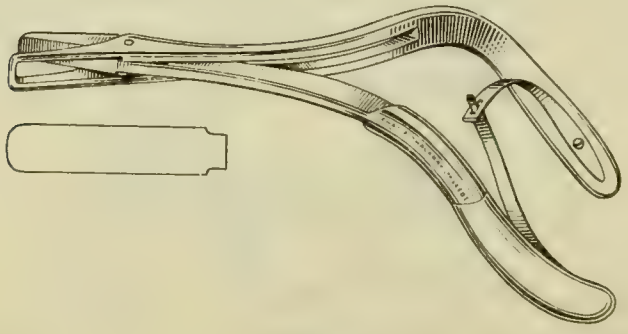
Cat. No.

N1887 BRÜNING'S NASAL SEPTUM FORCEPS, avulsion, cut-through joint, stainless steel .. .. each



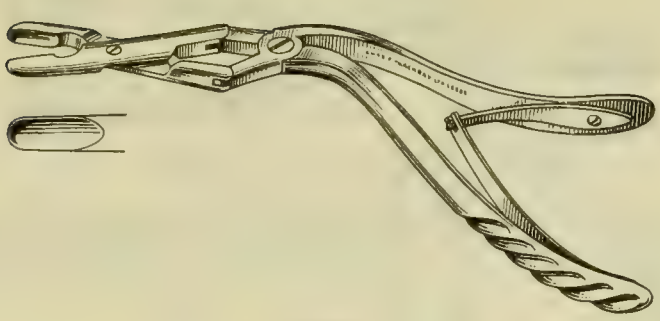
N1888

N1888 HEATH'S NASAL SEPTUM FORCEPS, avulsion, cut-through joint, stainless steel .. .. each



N1889

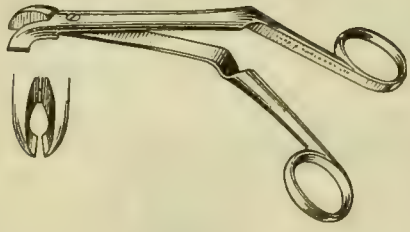
N1889 FOSTER-BALLENGER'S NASAL SEPTUM FORCEPS, cut-through joint, stainless steel .. .. each



N1890

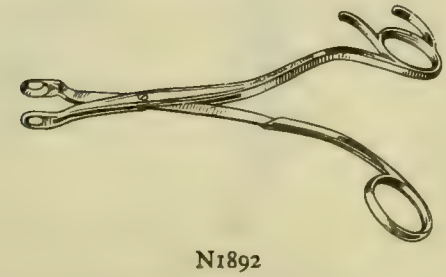
Cat. No.

N1890 JANSEN-MIDDLETON'S NASAL SEPTUM FORCEPS, multiple-action joints, stainless steel .. .. each



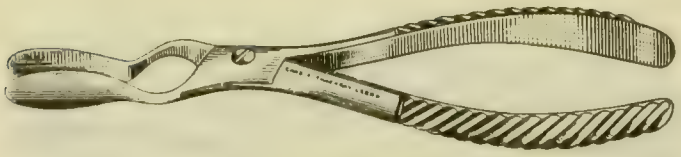
N1891

N1891 LUTZ' NASAL SEPTUM FORCEPS, screw joint, stainless steel .. each



N1892

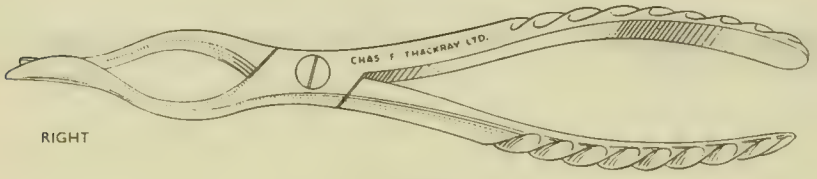
N1892 DAN McKENZIE'S NASAL SEPTUM FORCEPS, avulsion, cut-through joint, stainless steel .. .. each



N1893

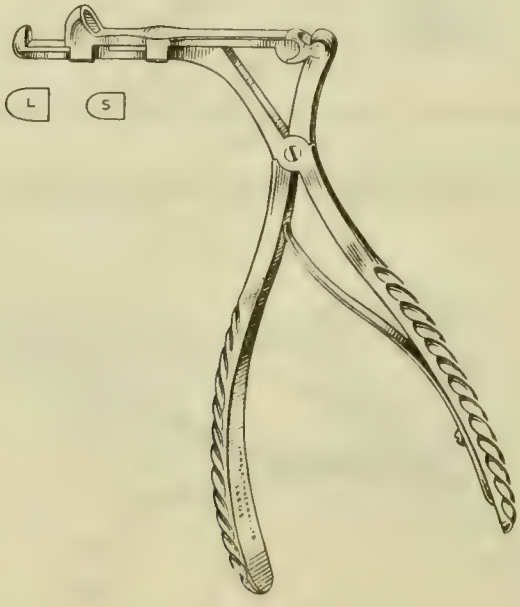
Cat. No.

N1893 WALSHAM'S NASAL SEPTUM FORCEPS, for straightening the septum, screw joint, stainless steel .. .. each



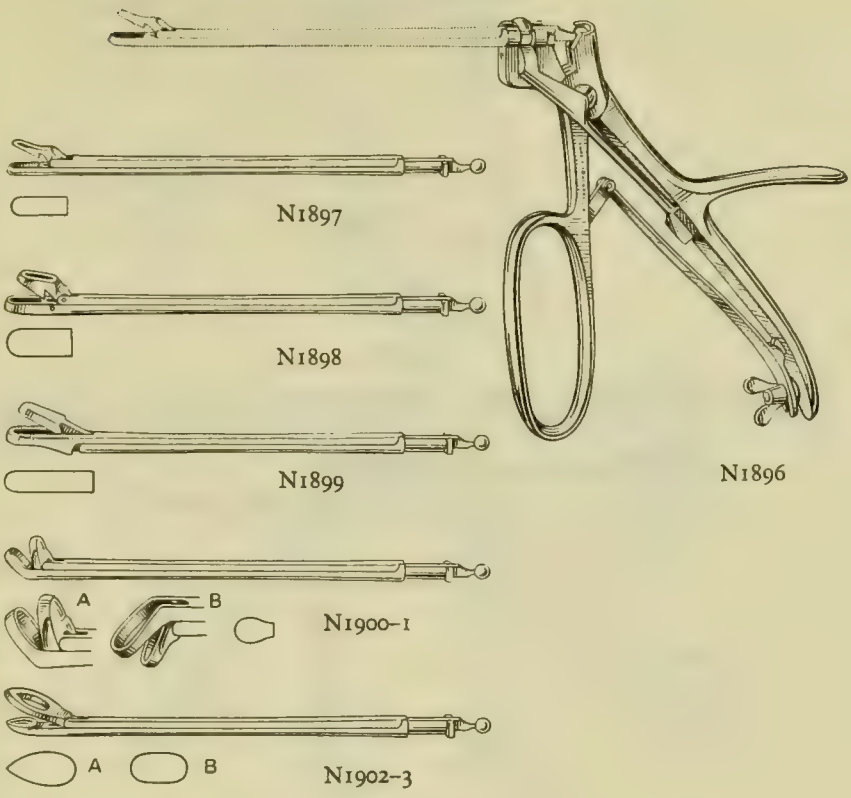
N1894

N1894 WALSHAM'S NASAL SEPTUM FORCEPS, screw joint, stainless steel, two patterns: right and left .. .. each



N1895

N1895 CITELLI'S ANTRUM PUNCH FORCEPS, stainless steel, two sizes: A and B, each



Cat. No.

N1896 UNIVERSAL HANDLE, to fit any of the Grünwald's Jaws listed below, stainless steel .. .. each

N1897 GRÜNWALD'S NASAL PUNCH FORCEPS, narrow bite, fenestrated lower jaw, on shaft for universal handle N1896 .. .. each

N1898 Ditto .. fenestrated jaws .. .. each

N1899 Ditto .. fenestrated and tapered lower jaw .. .. .. each

N1900 Ditto .. upward cutting (A) .. .. each

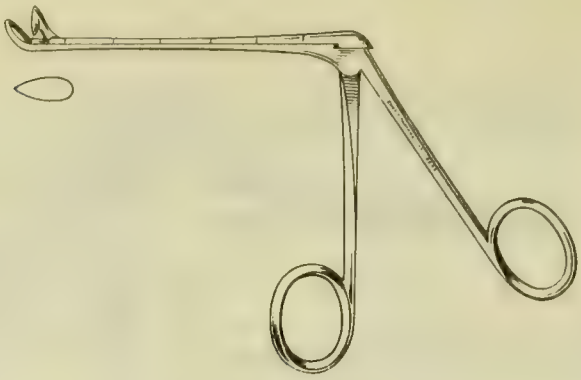
N1901 Ditto .. downward cutting (B) .. .. each

N1902 Ditto .. with sharp tip (A) .. .. each

N1903 Ditto .. with blunt tip (B) .. .. each

N1904 Set of Seven Jaws on Shafts, with handle, as listed above .. .. complete

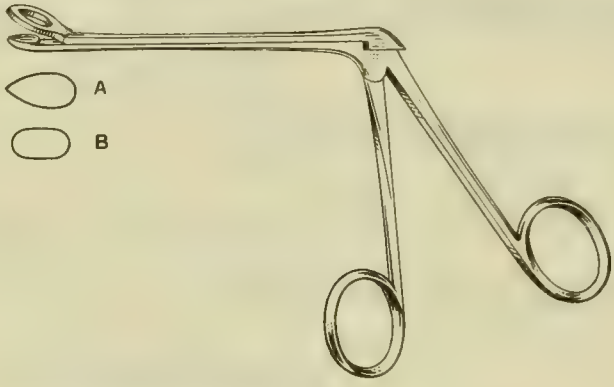
NOTE.—Metal or Wooden Cases for above, made to order.



N1905

Cat. No.

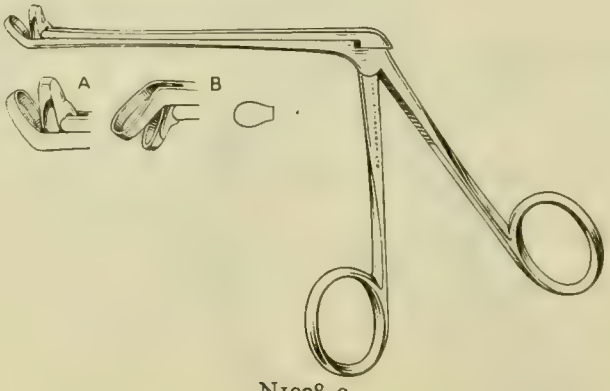
N1905 GRÜNWALD'S NASAL PUNCH FORCEPS, stainless steel .. each



N1906–7

N1906 GRÜNWALD'S NASAL PUNCH FORCEPS, with sharp tip (A), stainless steel .. .. each

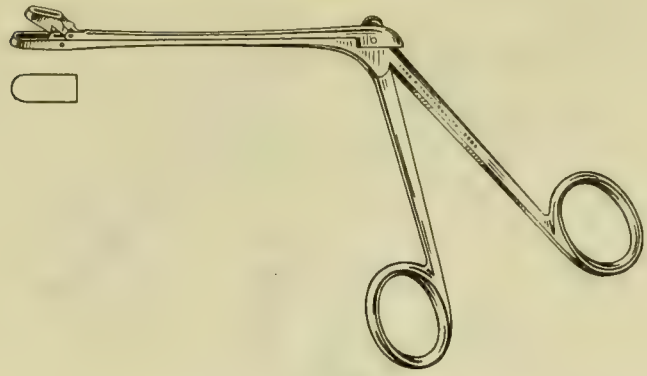
N1907 Ditto .. with blunt tip (B) .. .. each



N1908–9

N1908 GRÜNWALD'S NASAL PUNCH FORCEPS, stainless steel, upward cutting (A), each

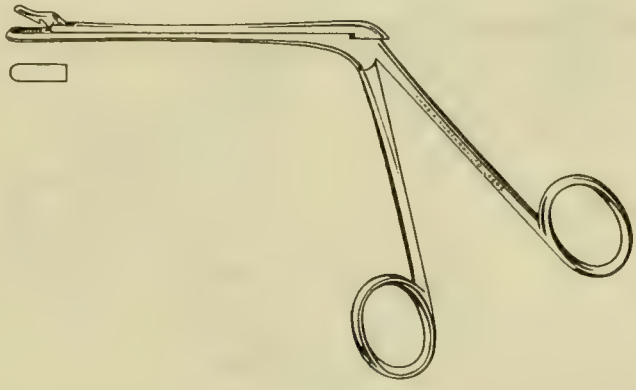
N1909 Ditto .. downward cutting (B) .. .. each



N1910

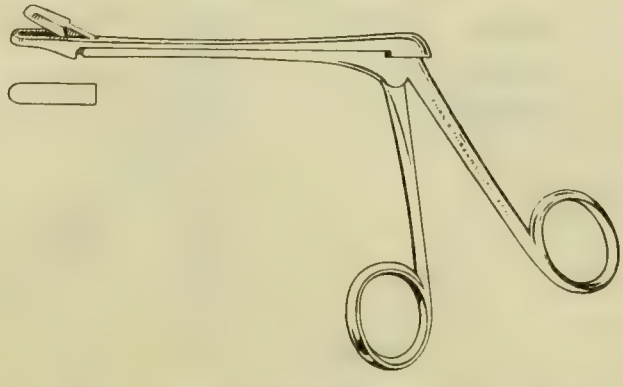
Cat. No.

N1910 GRÜNWALD'S NASAL PUNCH FORCEPS, fenestrated jaws, stainless steel, each



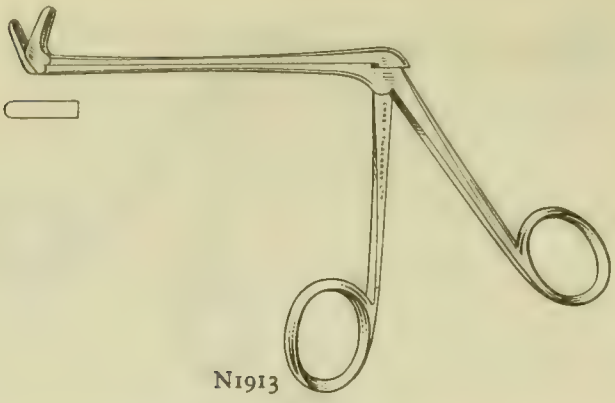
N1911

N1911 GRÜNWALD'S NASAL PUNCH FORCEPS, narrow bite, fenestrated lower jaw, stainless steel .. .. each



N1912

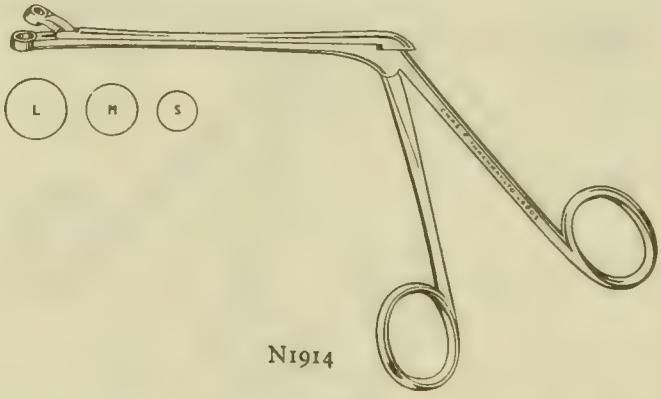
N1912 GRÜNWALD'S NASAL PUNCH FORCEPS, fenestrated and tapered lower jaw, stainless steel .. .. each



N1913

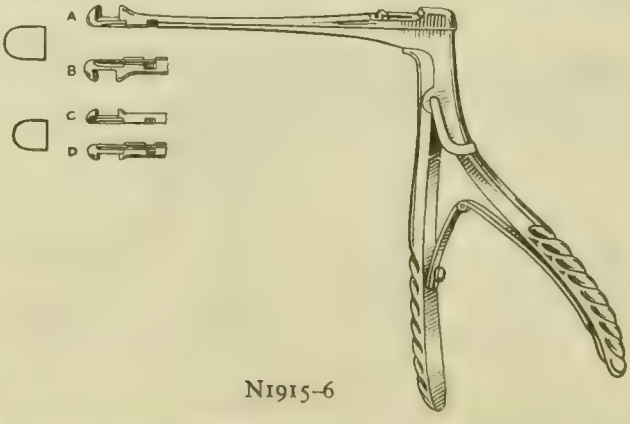
Cat. No.

N1913 GRÜNWALD'S NASAL PUNCH FORCEPS, fenestrated upper jaw, stainless steel .. .. each



N1914

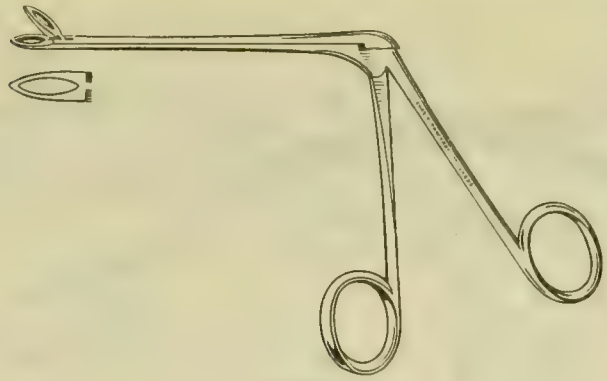
N1914 HARTMANN'S NASAL CONCHOTOME, stainless steel, three sizes: small, medium and large .. .. each



N1915–6

N1915 HAJEK'S SPHENOIDAL PUNCH FORCEPS, stainless steel, large size, two patterns: upward cutting (A) and downward cutting (B) .. .. each

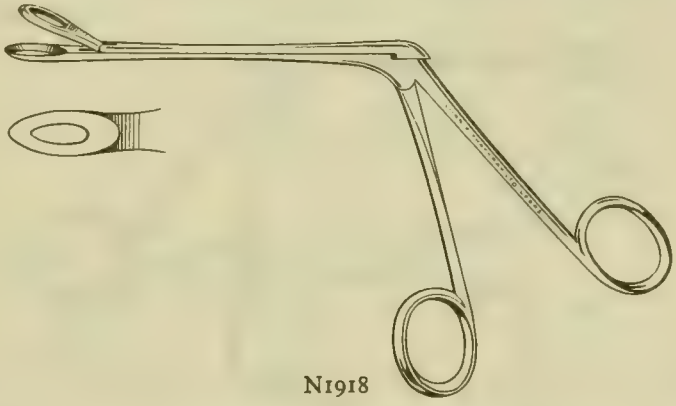
N1916 Ditto .. small size, two patterns: upward cutting (C) and downward cutting (D), each



N1917

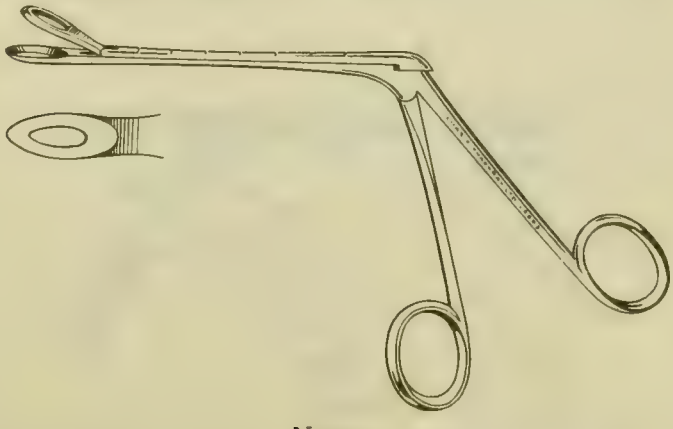
Cat. No.

N1917 HENCKEL'S (or Weil's) NASAL CUTTING FORCEPS, "Glasgow pattern", stainless steel .. .. each



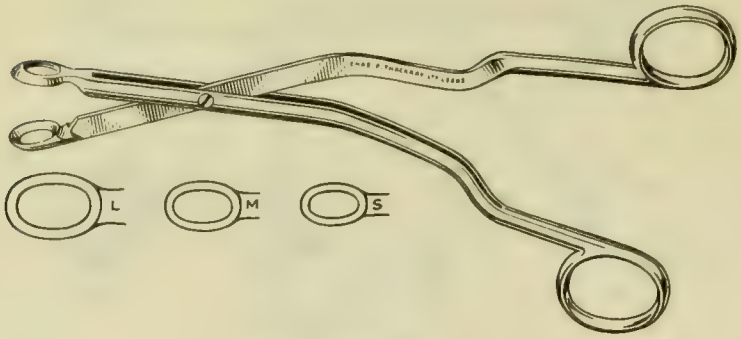
N1918

N1918 HENCKEL'S (or Weil's) NASAL CUTTING FORCEPS, stainless steel .. each



N1919

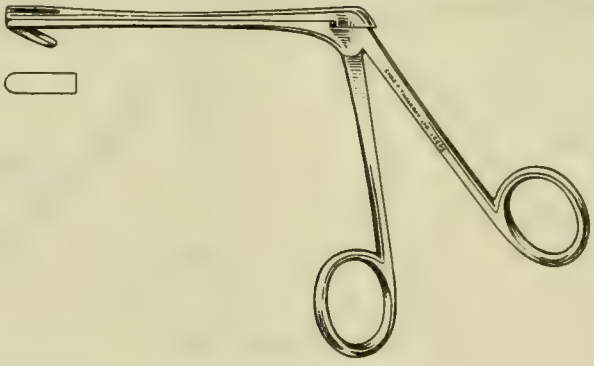
N1919 HENCKEL'S (or Weil's) NASAL CUTTING FORCEPS, as used by Tilley, with graduated shaft, stainless steel .. .. each



N1920

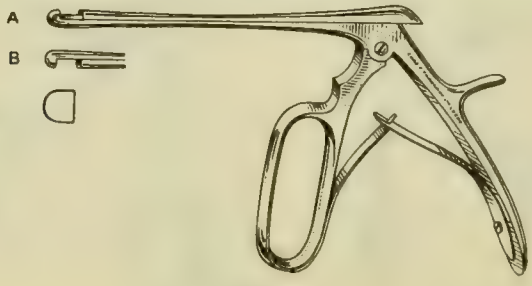
Cat. No.

N1920 LUC'S NASAL CUTTING FORCEPS, cut-through joint, stainless steel, three sizes: small, medium and large .. .. each



N1921

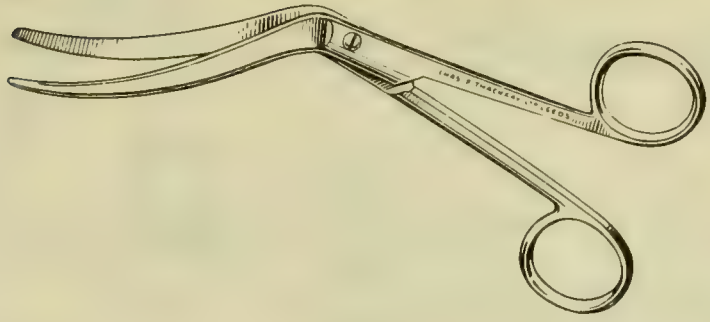
N1921 OSTROM'S ANTRUM FORCEPS, reverse cutting, stainless steel .. each



N1922–3

N1922 FERRIS SMITH'S (or Kerrison's) SPHENOIDAL PUNCH FORCEPS, upward cutting (A), stainless steel .. .. each

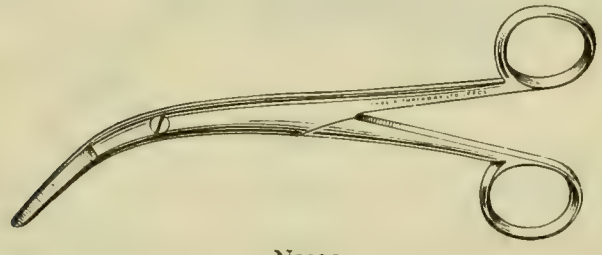
N1923 Ditto .. downward cutting (B) .. .. each



N1924

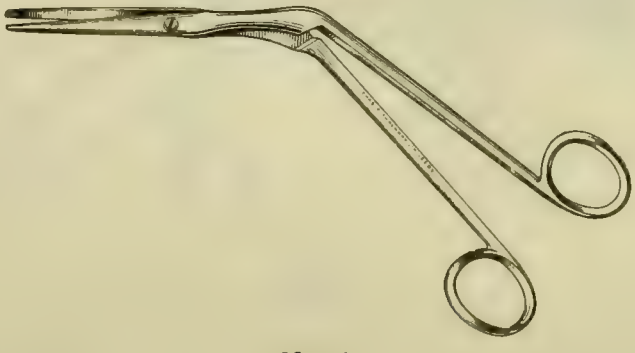
Cat. No.

N1924 BECKMANN'S NASAL SCISSORS, inferior turbinate, with serrated edge on blade, stainless steel .. .. each



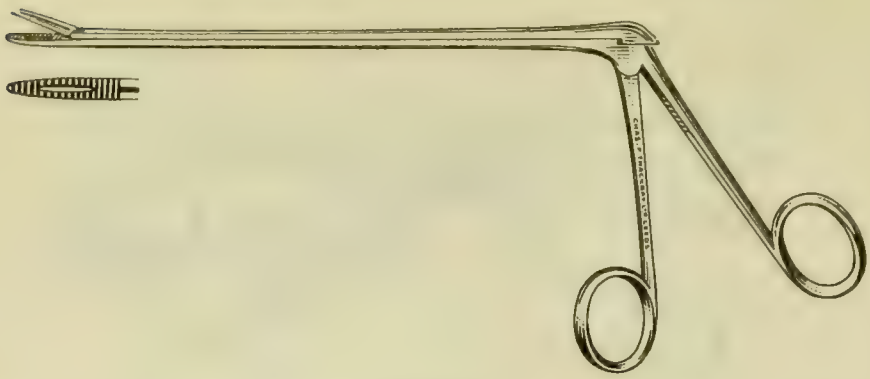
N1925

N1925 BECKMANN'S NASAL SCISSORS, middle turbinate, stainless steel .. each



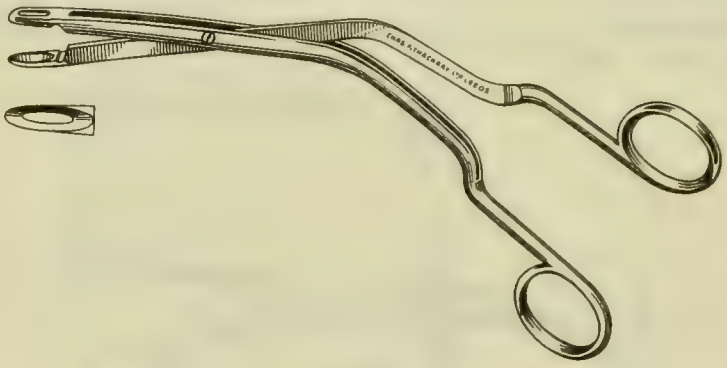
N1926

N1926 HEYMANN'S NASAL SCISSORS, stainless steel .. .. each



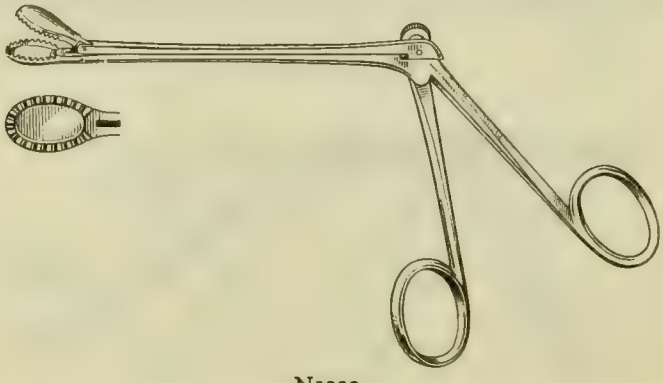
N1927

Cat. No.
N1927 NASAL POLYPI FORCEPS, stainless steel .. .. .. each



N1928

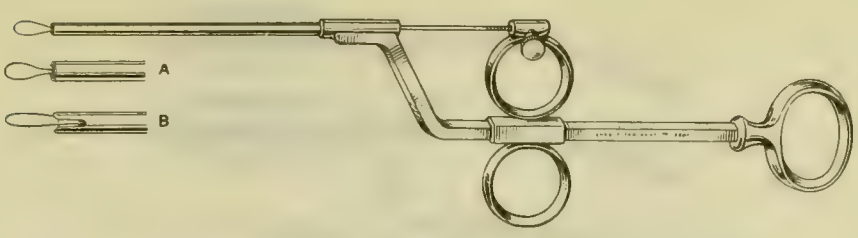
N1928 IRWIN MOORE'S NASAL POLYPI FORCEPS, cut-through joint, stainless steel .. .. each



N1929

N1929 WATSON WILLIAMS' NASAL POLYPI FORCEPS, with multiple toothed jaws, stainless steel .. .. each
*N1930 Ditto .. non-toothed jaws .. .. each

**Not illustrated*



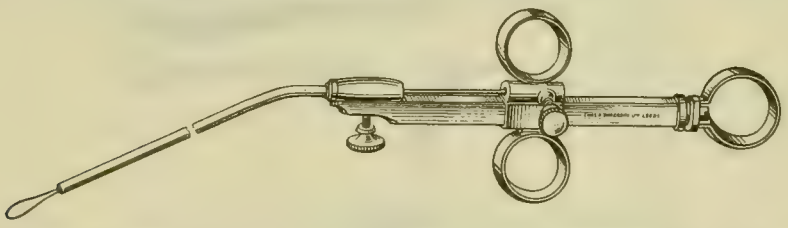
N1931-2

Cat. No.

N1931 GLEGG'S NASAL POLYPI SNARE, Negus' modification (A), stainless steel shaft and stilette, chromium plated handle and mounts .. .. each

N1932 Ditto .. original Glegg's, with grooved stilette end (B) to retain loop, each

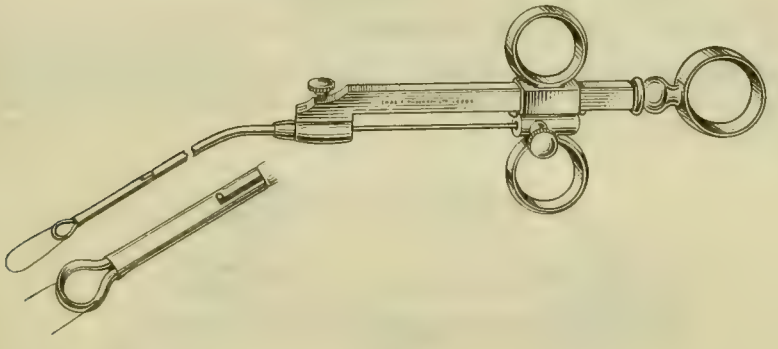
N1933 Spare Snare Wire for above .. .. per hank



N1934

N1934 KRAUSE'S NASAL POLYPI SNARE, stainless steel shaft and stilette, chromium plated handle and mounts .. .. each

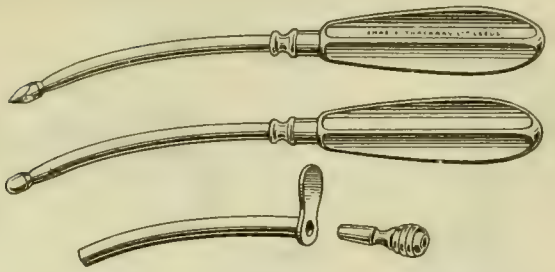
N1935 Spare Snare Wire for above .. .. per hank



N1936

N1936 THORNE'S NASAL POLYPI SNARE, with circular grooved stilette end to retain loop, stainless steel shaft and stilette, chromium plated handle and mounts, each

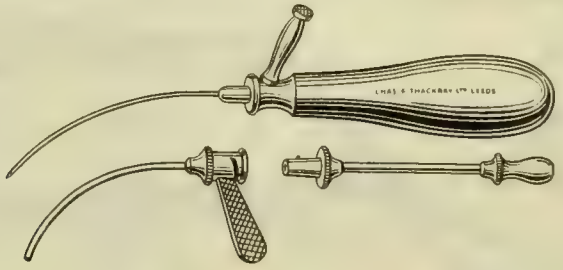
N1937 Spare Snare Wire for above . .. . .. per hank



N1938

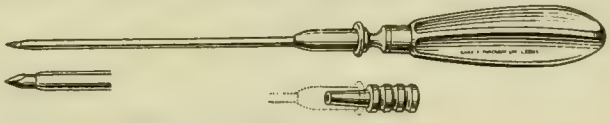
Cat. No.

N1938 KRAUSE'S ANTRUM TROCAR, with blunt pilot, stainless steel; chromium plated handles, cannula, Luer fitting, and tubing mount .. .. each



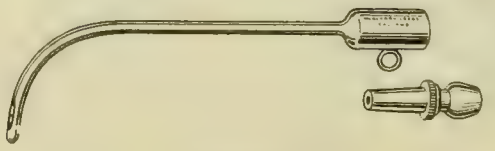
N1939

N1939 MYLES' ANTRUM TROCAR, stainless steel, chromium plated handle, cannula and bayonet fitting tubing mount .. .. each



N1940

N1940 LICHTWITZ'S ANTRUM TROCAR, stainless steel, Luer fitting cannula and tubing mount, chromium plated handle; three sizes of trocar: 6, 7·5 and 9 French Catheter Gauge .. .. each

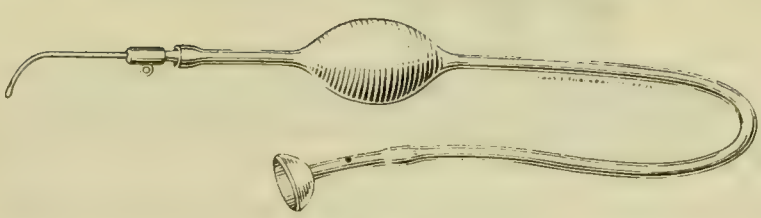


N1941

N1941 ROSE'S ANTRUM TUBE, Luer fitting, with tubing mount, silver plated, three sizes: 7, 8 and 9 French Catheter Gauge .. .. each

*N1942 ANTRUM TUBE, malleable, tin, Luer fitting .. .. .. each

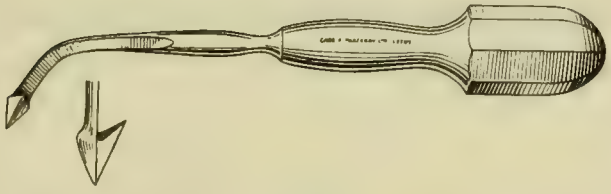
**Not illustrated*



N1943

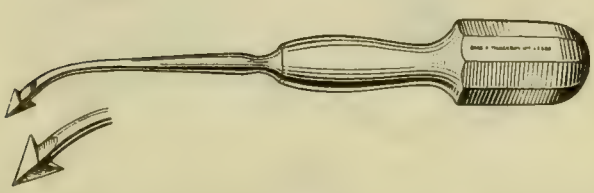
Cat. No.

N1943 ROSE'S ANTRUM SYRINGE, continuous-flow, consisting of: rubber bulb and sucker, silver plated Rose's Antrum tube and Luer fitting tubing mount (fig. N1941), each



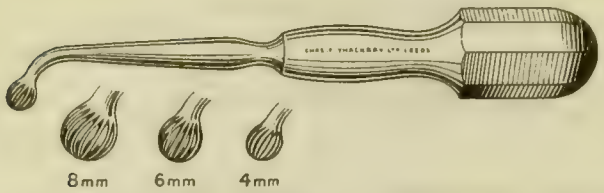
N1944

N1944 GILHESPY'S ANTRUM HARPOON, stainless steel, chromium plated handle, two patterns: right and left .. .. each



N1945

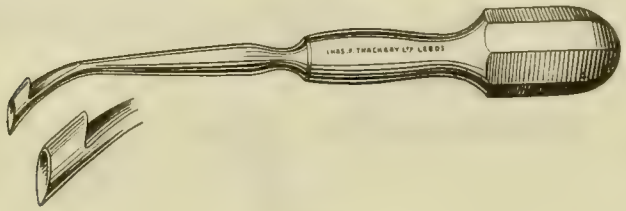
N1945 TILLEY'S ANTRUM HARPOON, stainless steel, chromium plated handle, each



N1946

Cat. No.

N1946 TILLEY'S ANTRUM BURR, stainless steel, chromium plated handle, three sizes: 4 mm., 6 mm. and 8 mm. .. .. each



N1947

N1947 MYLES' ANTRUM CHISEL, retrogade, stainless steel, chromium plated handle, each



N1948

N1948 HARTMANN'S FRONTAL SINUS PROBE, silver .. .. each



N1949

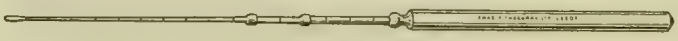
N1949 WATSON-WILLIAMS' FRONTAL SINUS BOUGIE, graduated in ins., silver plated, six sizes: 6, 8, 10, 14, 17 and 19 French Catheter Gauge .. each



N1950

Cat. No.

N1950 HAJEK'S FRONTAL SINUS PROBE, silver plated .. .. each



N1951

N1951 ROSE'S SPHENOIDAL SINUS PROBE, graduated in ¼ ins., silver plated, each



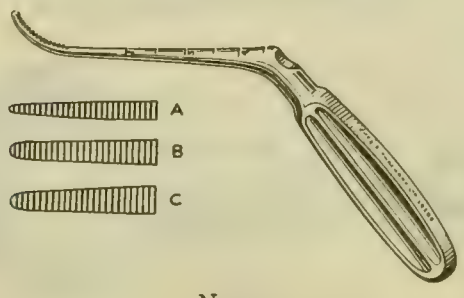
N1952

N1952 FRONTAL SINUS CANNULA, with Luer fitting tubing mount, silver plated, each



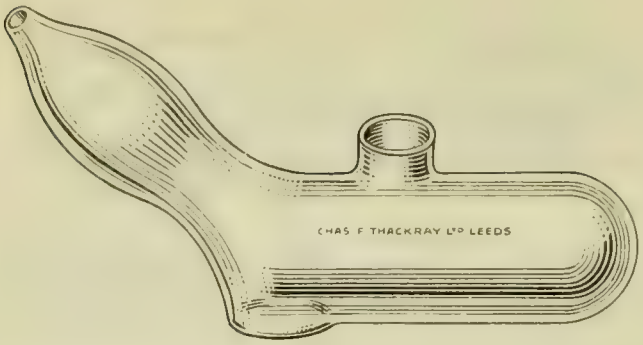
N1953

N1953 HARTMANN'S FRONTAL SINUS CANNULA, Luer fitting, with stilette, silver .. .. each



N1954

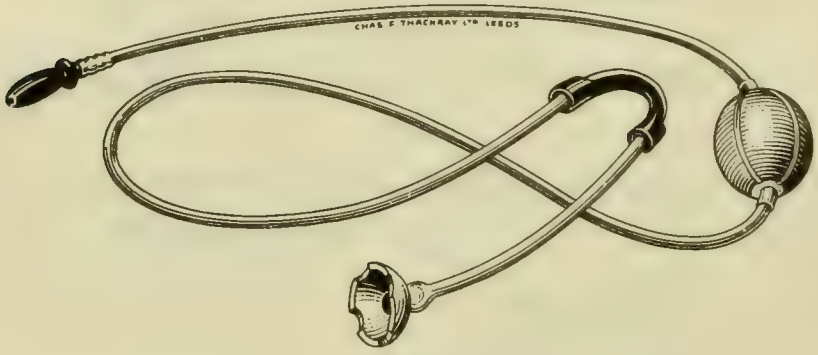
N1954 WATSON-WILLIAMS' FRONTAL SINUS RASP, graduated in ins., stainless steel, chromium plated handle, three sizes: A, B and C .. .. each



N1955

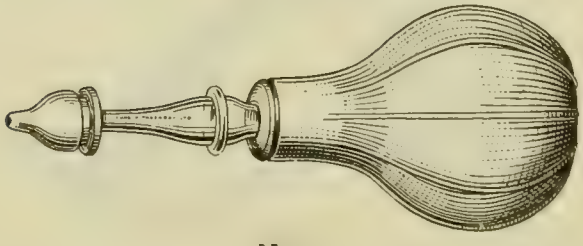
Cat. No.

N1955 "DUCK" PATTERN NASAL DOUCHE, glass .. .. .. each



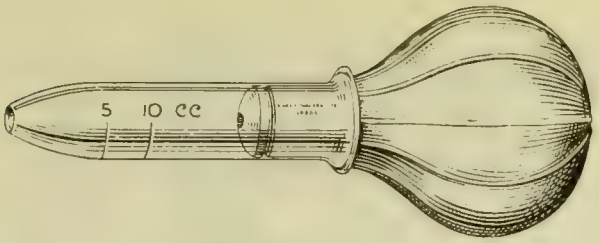
N1956

N1956 NASAL DOUCHE, syphon, with rubber ball, metal sinker and vulcanite nozzle, each



N1957

N1957 TILLEY'S NASAL SYRINGE, rubber bulb, 4 oz., with glass connection and rubber acorn nozzle .. .. each



N1958

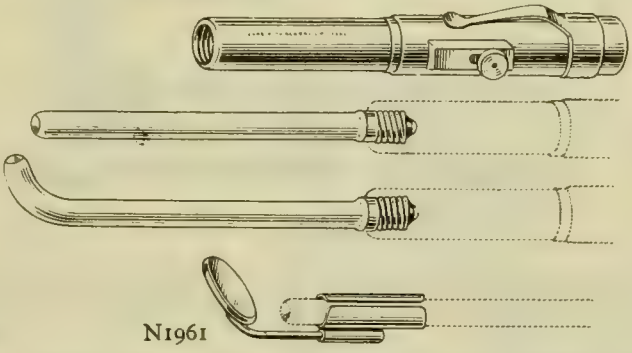
Cat. No.

N1958 PROETZ' NASAL SYRINGE, for displacement therapy, rubber bulb, graduated glass barrel .. .. each

N1959 Spare Glass Barrels .. .. each

N1960 Spare Rubber Bulbs .. .. each

This syringe is used to inject the chosen solution into each nasal passage; a suction tip is then used to obtain intermittent negative pressure.



N1961

N1961 TRANSILLUMINATION OUTFIT, consisting of: Torch handle with battery, one of each straight and curved opal lamps with detachable mirror, in velvet lined leather covered case .. .. complete

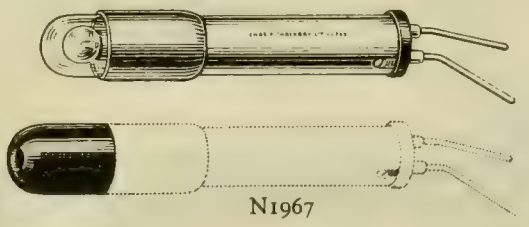
N1962 Torch Handle only (without battery) .. .. each

N1963 Batteries for above .. .. each

N1964 Opal Lamps only, straight .. .. each

N1965 Opal Lamps only, curved .. .. each

N1966 Detachable Mirror only .. .. each



N1967

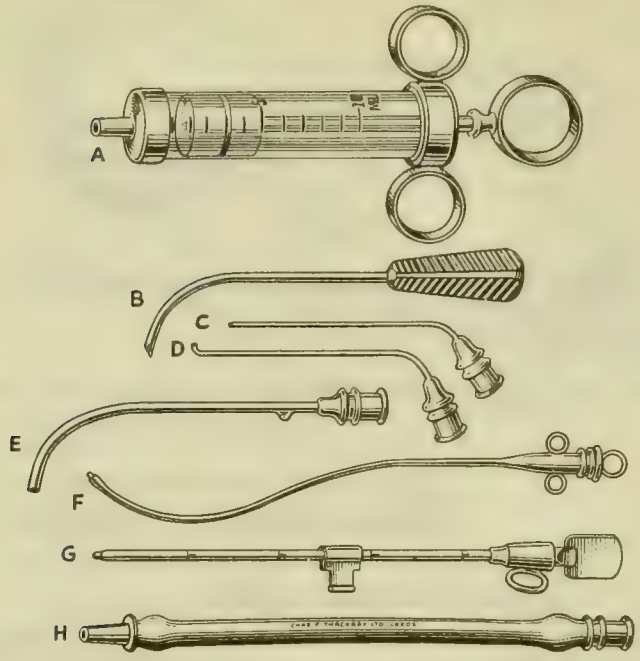
N1967 MOURE'S TRANSILLUMINATION LAMP, fitted with outer sheath for antrum illumination and fibre cone to fit inner sheath for frontal sinus illumination, chromium plated, complete with spare lamp .. .. .. each

The twin-terminals will fit a standard galvano-cautery handle.

N1968 Ditto .. with single terminal to fit a standard diagnostic set handle .. each

N1969 Spare Lamps for above .. .. each

See also Diagnostic Sets in our Catalogue section of Clinical Diagnosis Instruments.



N1970

Cat. No.

N1970 WATSON-WILLIAMS' SYRINGE OUTFIT, consisting of: syringe (A) and accessories (B), (C), (D), (E), (F), (G) and (H), Luer fitting, in chromium plated case .. .. complete

N1971 Syringe only (A) 10 ml. .. .. each

N1972 Exploring Needle (B) for antrum, stainless steel, silver plated mount .. each

N1973 Cannula (C), for middle ear, silver plated .. .. .. each

N1974 Ditto .. curved end (D), silver plated .. .. each

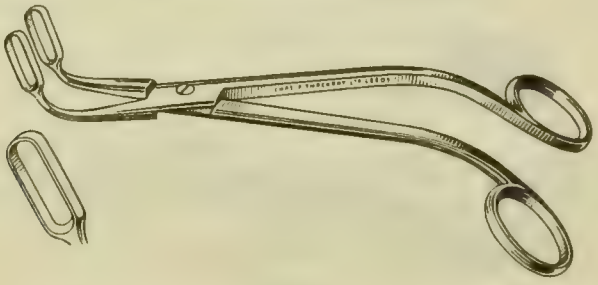
N1975 Cannual (E), for antrum, silver plated .. .. each

N1976 Cannula (F), for frontal sinus, with stilette, silver plated .. .. each

N1977 Cannula (G), for sphenoidal sinus, graduated, silver plated, with stainless steel obturator .. .. each

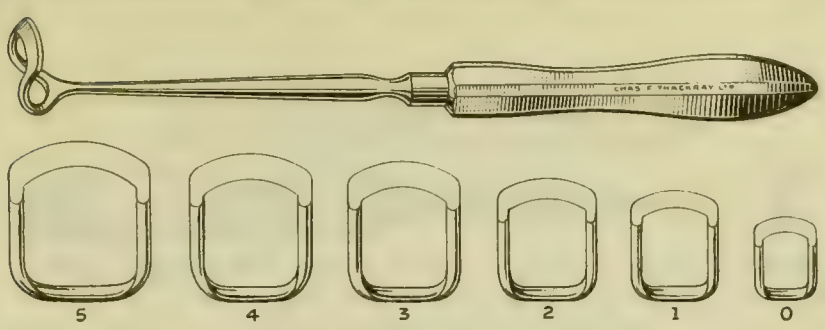
N1978 Rubber Tubing and Mounts (H), for above parts .. .. .. each

NOTE.—All connecting mounts are Luer fitting.



N1979

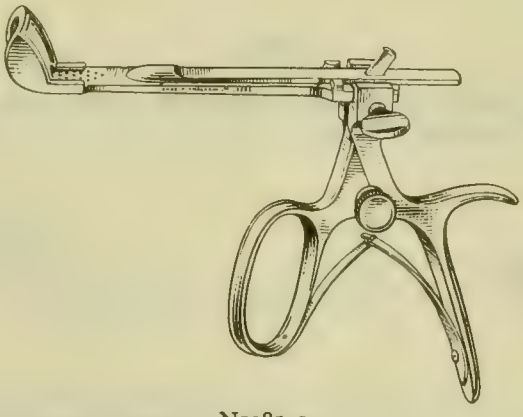
N1979 ST. CLAIR THOMSON'S ADENOID FORCEPS, screw joint, stainless steel, each



N1980

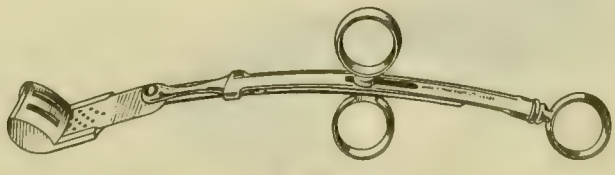
Cat. No.

N1980 BECKMANN'S ADENOID CURETTE, stainless steel, chromium plated handle, six sizes: 0, 1, 2, 3, 4 and 5 .. .. each



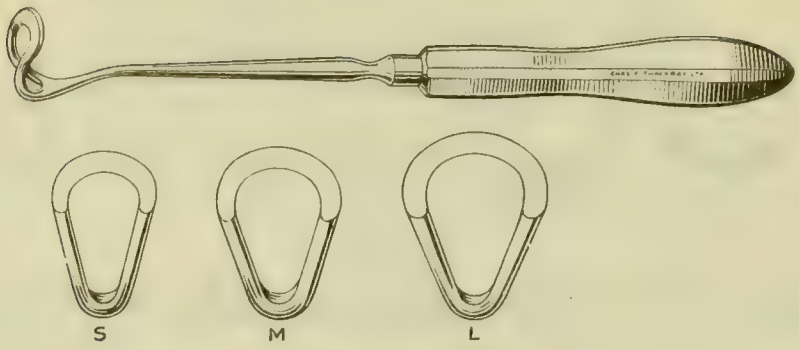
N1981–3

N1981 LA FORCE'S ADENOTOME, consisting of: handle and detachable shaft, stainless steel, with two carbon steel blades, small size: 10 mm. wide aperture .. each
N1982 Ditto .. medium size: 13 mm. wide aperture .. .. .. each
N1983 Ditto .. large size: 15 mm. wide aperture .. .. .. each
N1984 Shaft only, with two blades, three sizes .. .. each
N1985 Spare Blades for above, three sizes .. .. each
N1986 Handle only, to fit above shafts .. .. each



N1987–9

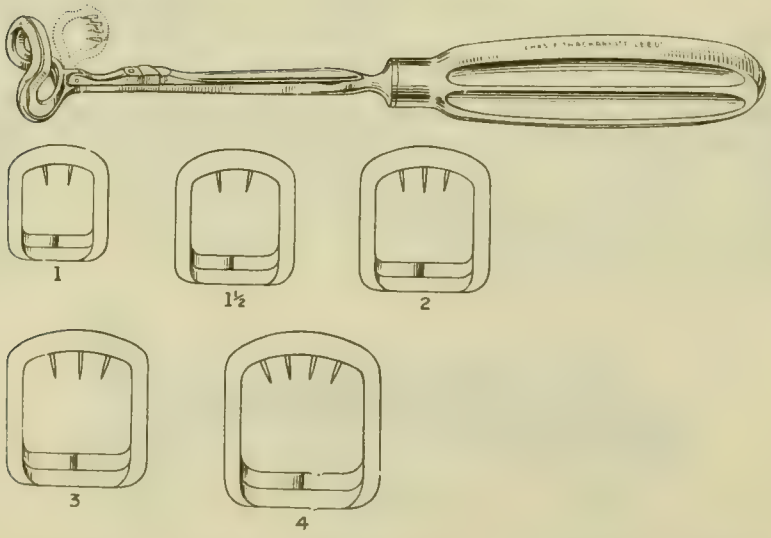
N1987 LA FORCE'S ADENOTOME, chromium plated, with two carbon steel blades, small size: 10 mm. wide aperture .. .. each
N1988 Ditto .. medium size: 13 mm. wide aperture .. .. .. each
N1989 Ditto .. large size: 15 mm. wide aperture .. .. .. each
N1990 Spare Blades f or above, three sizes .. .. each



N1991

Cat. No.

N1991 GOTTSTEIN'S ADENOID CURETTE, stainless steel, chromium plated handle, three sizes: small, medium and large .. .. each



N1992

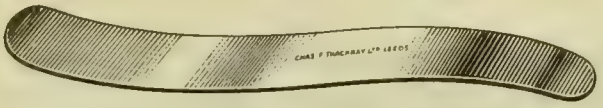
N1992 ST. CLAIR THOMSON'S ADENOID CURETTE, with cage, stainless steel, chromium plated handle, five sizes: 1, 1½, 2, 3 and 4 .. .. each



T1993

Cat. No.

T1993 TONGUE DEPRESSOR, wood, 6 in. long, $\frac{3}{4}$ in. wide, in boxes of a hundred, per box



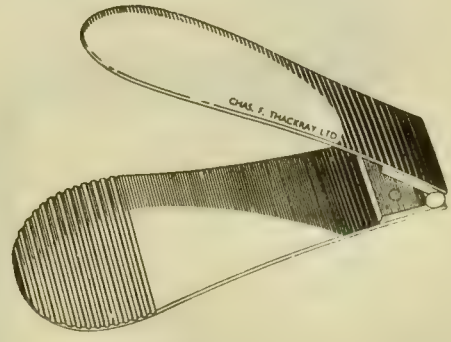
T1994

T1994 TONGUE DEPRESSOR, tapered width, stainless steel .. .. each



T1995

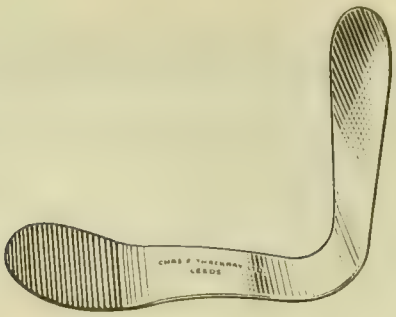
T1995 TONGUE DEPRESSOR, tapered width, glass .. .. .. each



T1996

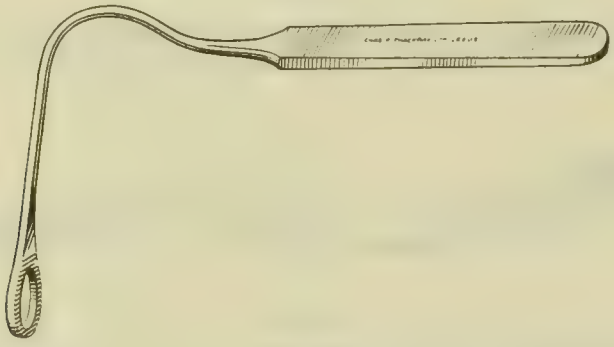
T1996 TONGUE DEPRESSOR, folding, concave blades, stainless steel .. each

NOTE—Diagnostic Sets, Headmirrors, Headlamps and Examination Lamps: see Catalogue section of Clinical Diagnosis Instruments.



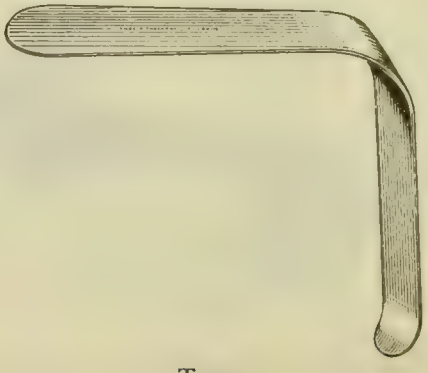
T1997

Cat. No.
T1997 BABER'S TONGUE DEPRESSOR, stainless steel .. .. each



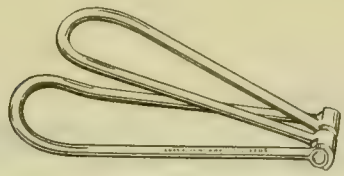
T1998

T1998 FRÄNKEL'S TONGUE DEPRESSOR, stainless steel .. .. each



T1999

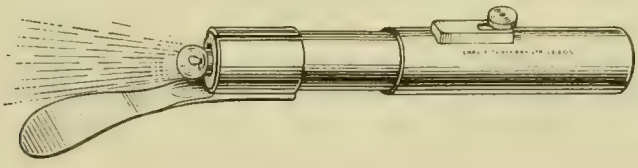
T1999 LACK'S TONGUE DEPRESSOR, stainless steel, two sizes: adults' and children's .. .. each



T2000

Cat. No.

T2000 WISE'S TONGUE DEPRESSOR, folding, stainless steel .. .. each

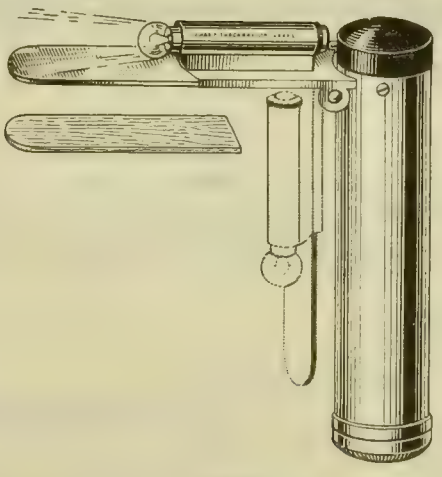


T2001

T2001 THROAT TORCH, with detachable tongue depressor, all-metal, nickel plated, complete with battery and lamp .. .. each

T2002 Spare Batteries .. .. each

T2003 Spare Lamps, 2·5 volts .. .. each



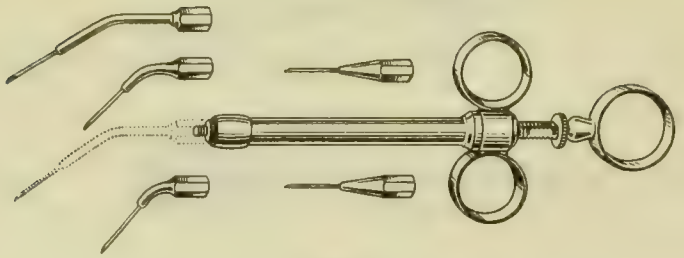
T2004

T2004 THROAT TORCH, folding, with detachable metal tongue blade, nickel plated, and fifty wooden tongue blades, battery and lamp, in card case.. complete

T2005 Spare Wooden Tongue Blades, in boxes of fifty .. .. .. per box

T2006 Spare Batteries .. .. each

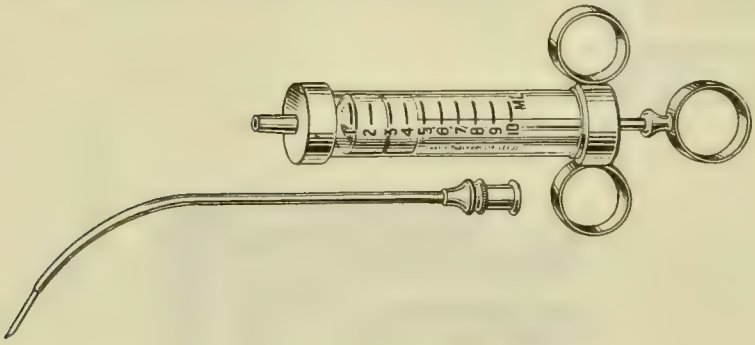
T2007 Spare Lamps, 2·5 volts .. .. each



T2008

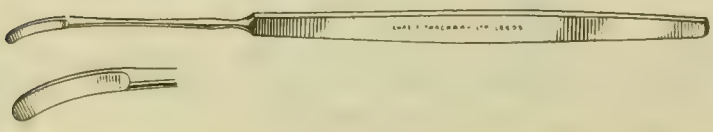
Cat. No.

T2008 DAN McKENZIE'S TONSIL SYRINGE, all-metal, chromium plated, screw fitting nozzle, with five stainless steel needles, in chromium plated case, complete



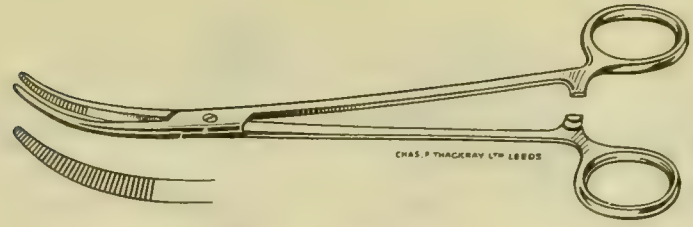
T2009

T2009 WATSON-WILLIAMS' TONSIL SYRINGE, 10 ml., Luer fitting nozzle, with stainless steel needle mounted on chromium plated pipe, in chromium plated case, complete



T2010

T2010 NEGUS' TONSIL BISTOURY, nickel plated .. .. .. each



T2012

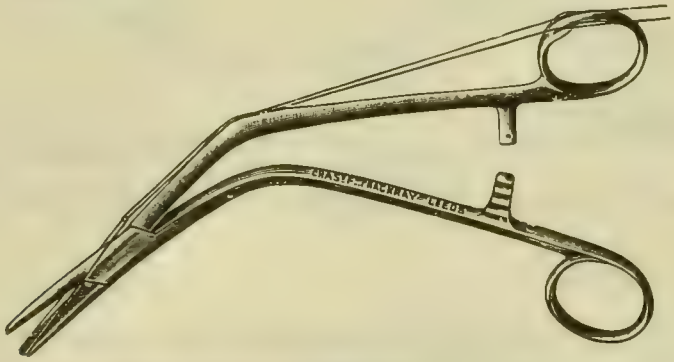
Cat. No.

T2011 BIRKETT'S TONSIL ARTERY FORCEPS, straight, screw joint, 7½ in., stainless steel .. .. each

T2012 Ditto .. curved-on-flat .. .. each

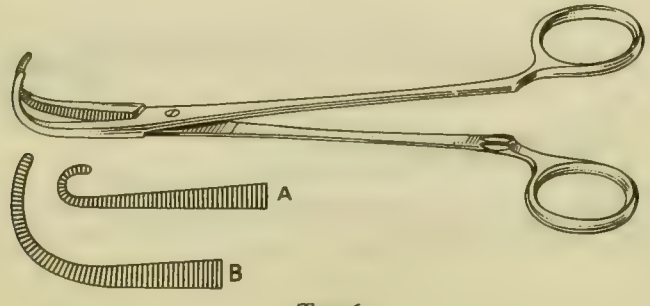
T2013 BIRKETT'S TONSIL ARTERY FORCEPS, straight, box joint, 7½ in., stainless steel .. .. each

T2014 Ditto .. curved-on-flat .. .. each



T2015

T2015 DENIS BROWNE'S TONSIL ARTERY FORCEPS, angled laterally, with ligature notch on bow, shank and jaw; box joint, 8 in., stainless steel .. each

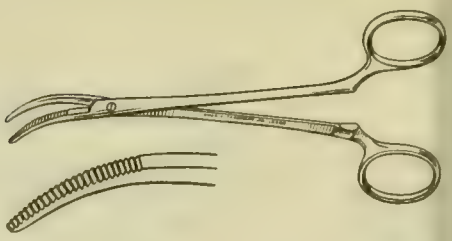


T2016

T2016 NEGUS' TONSIL ARTERY FORCEPS, screw joint, 7¼ in., stainless steel, two curves: short (A) and long (B) .. .. each



T2017



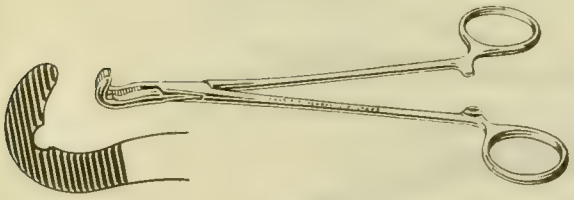
T2019

Cat. No.

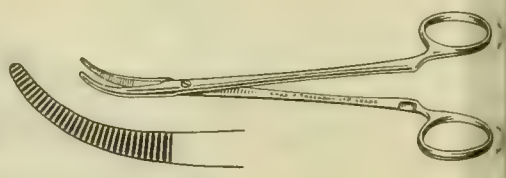
T2017 SAWTELL'S TONSIL ARTERY FORCEPS, curved-on-flat, screw joint, 7 in., stainless steel .. .. each

T2018 Ditto .. box joint .. .. each

T2019 SCOTT'S TONSIL ARTERY FORCEPS, curved laterally, screw joint, 7 in., stainless steel .. .. each



T2020



T2021

T2020 SMITH'S TONSIL ARTERY FORCEPS, box joint, 8 in., stainless steel each

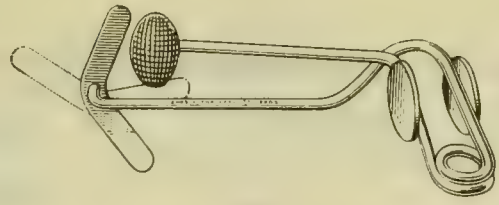
T2021 SCHNIDT'S TONSIL ARTERY FORCEPS, curved-on-flat, screw joint, 7 in., stainless steel .. .. each

T2022 Ditto .. box joint .. .. each



T2023

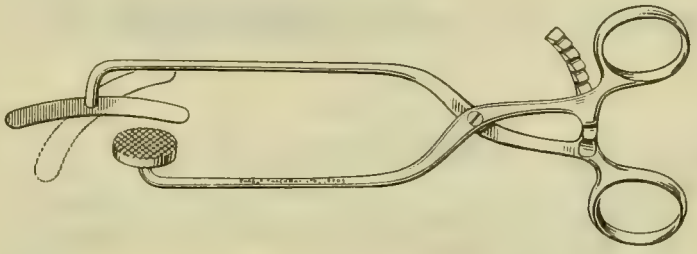
T2023 WHITELOCK'S TONSIL ARTERY FORCEPS, curved-on-flat, with open bow for passing snare loops, box joint, 7 in., stainless steel .. .. each



T2024

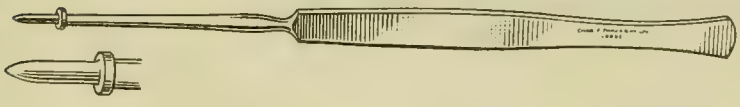
Cat. No.

T2024 SOUPER'S TONSIL COMPRESSOR, stainless steel, two sizes: small and large, each



T2025

T2025 COURTENAY YORKE'S TONSIL COMPRESSOR, screw joint, stainless steel, each



T2026

T2026 SCOTT GILLETT'S KNIFE, for peritonsillar abscess, nickel plated .. each



T2027

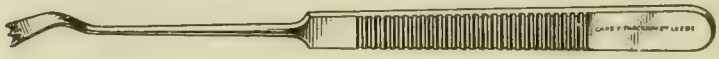
T2027 BEAVIS' TONSIL DISSECTOR AND RETRACTOR, stainless steel, each



T2028

Cat. No.

T2028 GWYNNE-EVANS' TONSIL DISSECTOR, stainless steel .. .. each



T2029

T2029 SEYMOUR JONES' TONSIL DISSECTOR, stainless steel .. each



T2030

T2030 SYME'S TONSIL DISSECTOR, stainless steel .. .. .. each



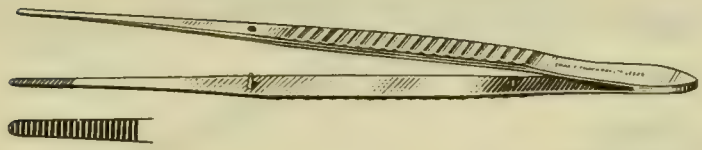
T2031

T2031 WAUGH'S TONSIL DISSECTING FORCEPS, with fine one into two teeth on serrated jaws, 8 in., stainless steel .. .. each

T2032 Ditto .. 7 in. .. .. each

T2033 WAUGH'S TONSIL DISSECTING FORCEPS, with fine non-toothed serrated jaws, 8 in., stainless steel .. .. each

T2034 Ditto .. 7 in. .. .. each

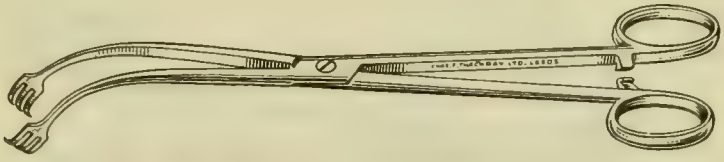


T2035

Cat. No.

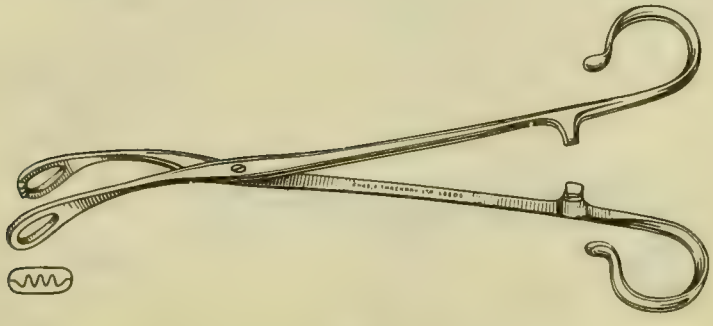
T2035 WAUGH'S (or Scott's) TONSIL DISSECTING FORCEPS, with slightly heavier non-toothed serrated jaws, 8 in., stainless steel .. .. each

T2036 Ditto .. with one into two teeth on serrated jaws .. .. each



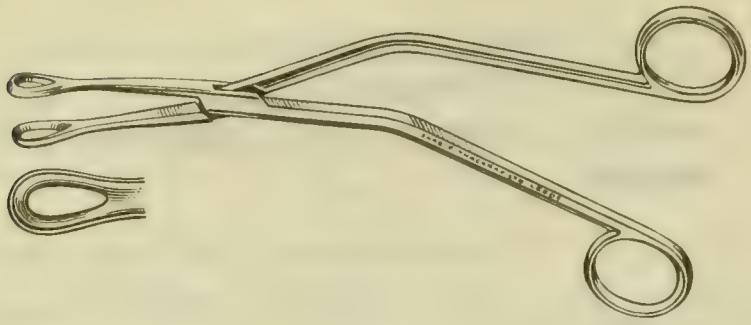
T2037

T2037 BALLENGER'S TONSIL HOLDING FORCEPS, with curved jaws, screw joint, 8 in., stainless steel .. .. each



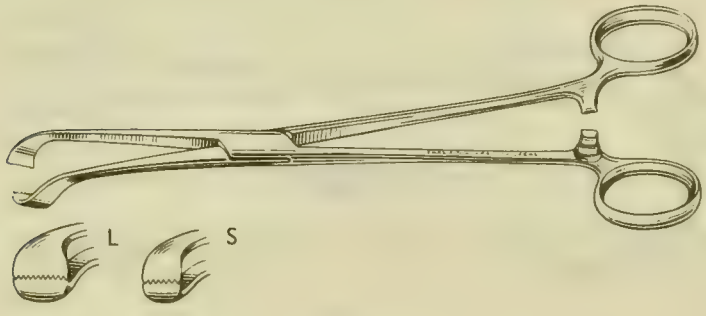
T2038

T2038 BLOHMKE'S (or "Sheffield Pattern") TONSIL HOLDING FORCEPS, with curved jaws and open bows for passing snare loops, screw joint, 8 in., stainless steel, each



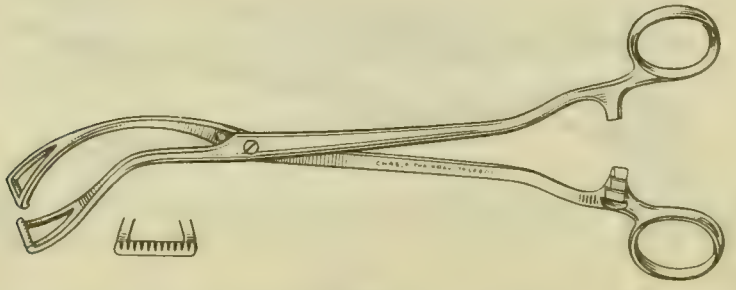
T2039

Cat. No.
T2039 DENIS BROWNE'S TONSIL HOLDING FORCEPS, with non-traumatic jaws, box joint, 8 in., stainless steel .. .. each
Also used as an Intestinal Holding Forceps



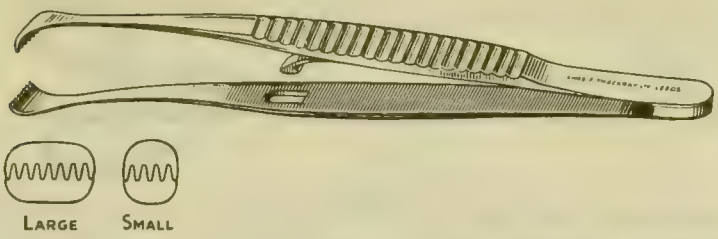
T2040

T2040 RELTON'S TONSIL HOLDING FORCEPS, with curved jaws, box joint, 8 in., stainless steel, two sizes: small and large .. .. .. each



T2041

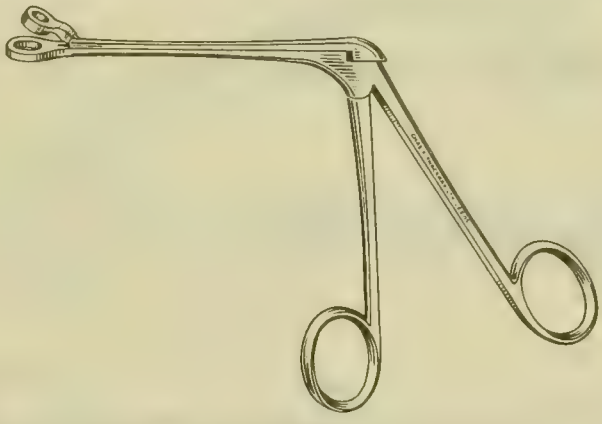
T2041 McKIERNAN'S TONSIL HOLDING FORCEPS, with jaws curved laterally, screw joint, 8 in., stainless steel .. .. each



T2042

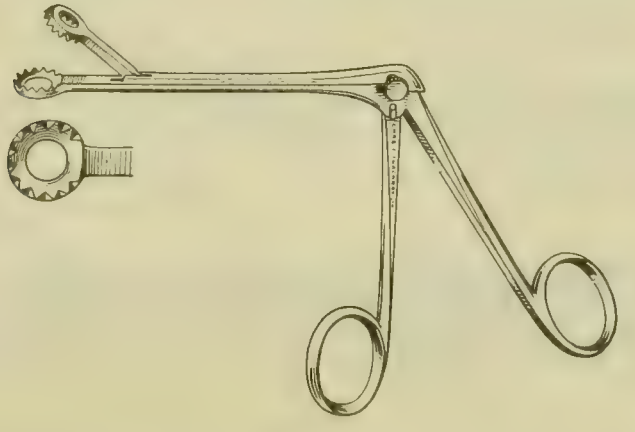
Cat. No.

T2042 TILLEY'S TONSIL HOLDING FORCEPS, with spring catch, curved jaws, $7\frac{1}{2}$ in., stainless steel, two sizes: small and large .. .. .. each



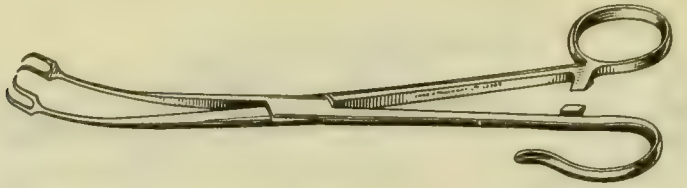
T2043

T2043 WAUGH'S TONSIL HOLDING FORCEPS, crocodile action, stainless steel, each



T2044

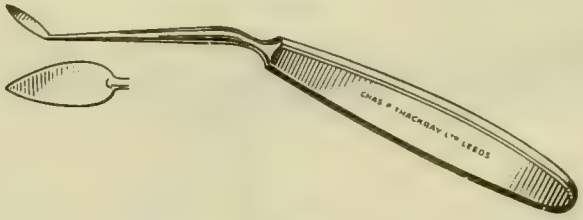
T2044 WATSON-WILLIAMS' TONSIL HOLDING FORCEPS, crocodile action, stainless steel .. .. each



T2045

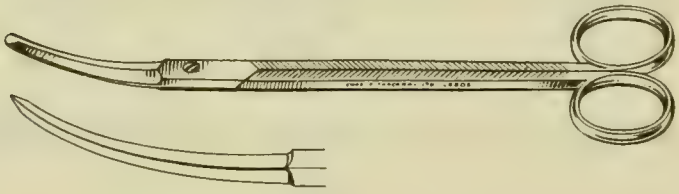
Cat. No.

T2045 WHITELOCK'S TONSIL HOLDING FORCEPS, with curved jaws and open bow for passing snare loops, box joint, 7½ in., stainless steel .. .. each



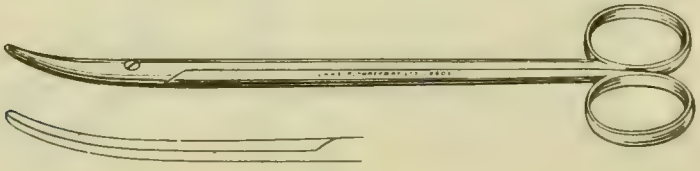
T2046

T2046 MILLIGAN'S TONSIL KNIFE, stainless steel, chromium plated handle, each



T2047

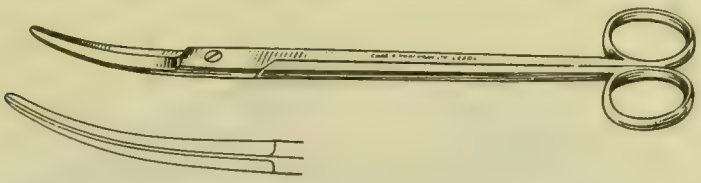
T2047 BOETTCHER'S TONSIL SCISSORS, with flattened tips, double-edged dissecting blades and serrated shanks, lightweight, 7½ in., stainless steel .. each



T2048

T2048 GRIFFIN'S TONSIL SCISSORS, with rounded blades, curved-on-flat, 7½ in., stainless steel .. .. each

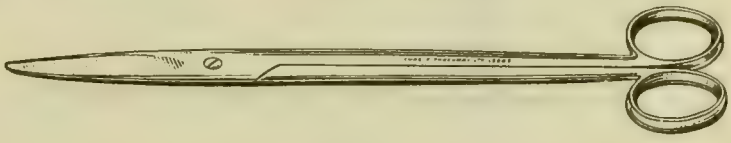
T2049 Ditto .. straight .. .. each



T2050

Cat. No.

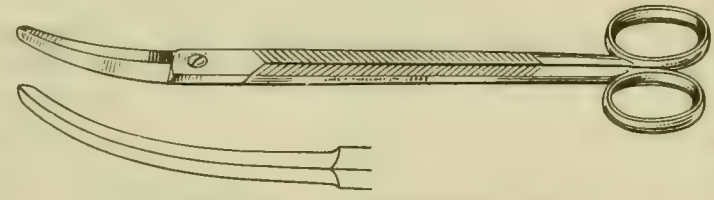
T2050 PRINCE'S TONSIL SCISSORS, with double-edged dissecting blades, 7½ in., stainless steel .. .. each



T2051

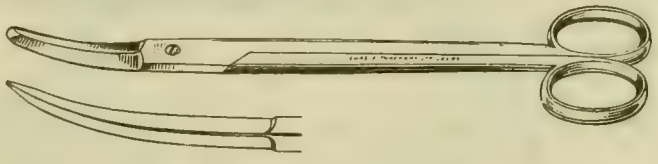
T2051 WILSON'S TONSIL SCISSORS, with chamfered blades, 8 in., stainless steel, each

T2052 Ditto .. curved-on-flat .. .. each



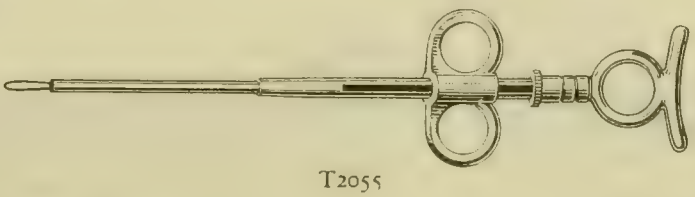
T2053

T2053 WHEELER'S TONSIL SCISSORS, with double-edged dissecting blades and serrated shanks, 8 in., stainless steel .. .. each



T2054

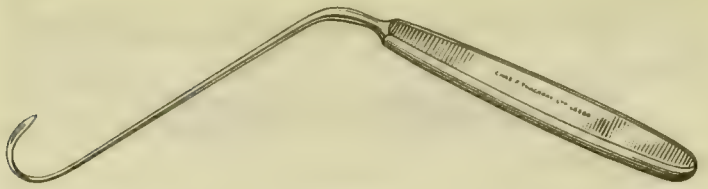
T2054 WOOD'S TONSIL SCISSORS, with flattened tips and double-edged dissecting blades, 7½ in., stainless steel .. .. each



T2055

T2055 EVE'S TONSIL SNARE, stainless steel shaft and stilette, chromium plated handle and mounts .. .. each

T2056 Spare Snare Wire for above .. .. .. per hank



T2057

Cat. No.
T2057 DAN McKENZIE'S TONSIL NEEDLE, stainless steel, chromium plated handle, each



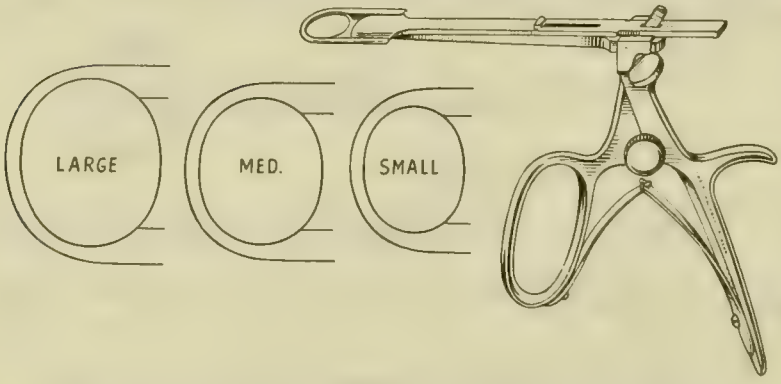
T2058

T2058 IRWIN MOORE'S TONSIL NEEDLE, stainless steel, two patterns: curved to left and curved to right .. .. each



T2059

T2059 NEGUS' "KNOT TIER", stainless steel, chromium plated handle .. each



T2060–2

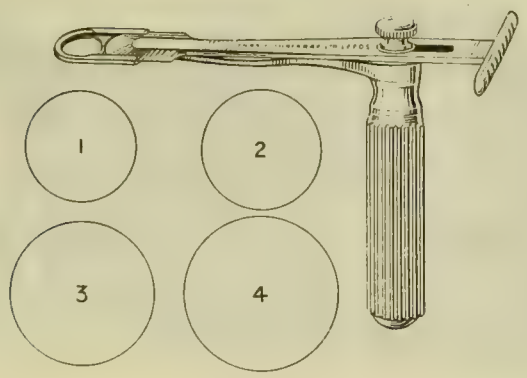
T2060 BALLENGER'S TONSIL GUILLOTINE, consisting of: handle and detachable shaft, stainless steel, small size .. .. each

T2061 Ditto .. medium size .. .. each

T2062 Ditto .. large size .. .. each

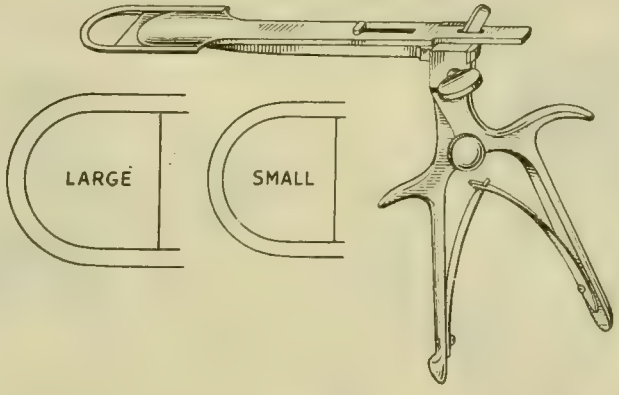
T2063 Shaft only, three sizes .. .. each

T2064 Handle only, to fit above shafts .. .. each



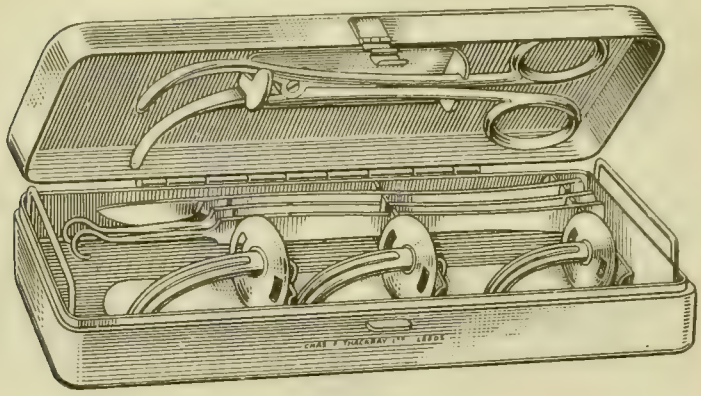
T2065-8

Cat. No.		
T2065	HEATH'S TONSIL GUILLOTINE, consisting of: chromium plated handle and stainless steel detachable shaft, extra small size (1)	each
T2066	Ditto .. small size (2)	each
T2067	Ditto .. medium size (3)	each
T2068	Ditto .. large size (4)	each
T2069	Shaft only, four sizes	each
T2070	Handle only, to fit above shafts	each



T2071-2

T2071	O'MALLEY'S TONSIL GUILLOTINE, consisting of: handle and detachable shaft, stainless steel, small size	each
T2072	Ditto .. large size	each
T2073	Shaft only, two sizes	each
T2074	Handle only, to fit above shafts	each

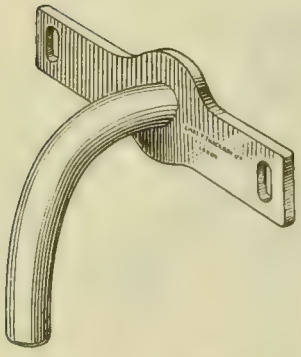


T2075

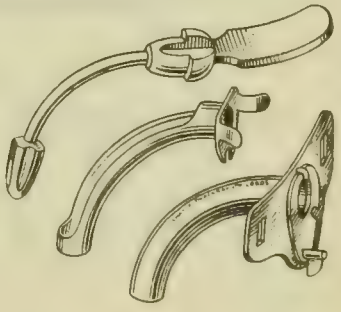
Cat. No.

T2075 TRACHEOTOMY SET, consisting of: Three Fuller's Tubes, †silver plated, one each, sizes 18, 22 and 26 French Catheter Gauge; One Sharp Hook, stainless steel; One Blunt Hook, stainless steel; One Scalpel, nickel plated; One Bowlby's Dilating Forceps, stainless steel. In chromium plated case .. .. complete

*T2076 TRACHEOTOMY SET, consisting of: Four Parker's Tubes, with pilots, †silver plated, one each, sizes 18, 22, 24 and 26 French Catheter Gauge; One Sharp Single Hook, stainless steel; One Double Blunt Hook, stainless steel; One Scalpel, nickel plated; One Bowlby's Dilating Forceps, stainless steel. In chromium plated case, complete



T2077

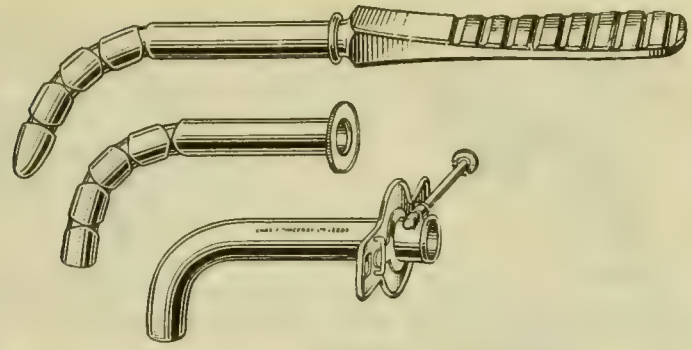


T2078

T2077 MORRANT BAKER'S TRACHEOTOMY TUBE, rubber, nine sizes: 18, 21, 24, 27, 30, 33, 36, 39 and 42 French Catheter Gauge .. .. .. each

T2078 CUBLEY'S TRACHEOTOMY TUBE, with pilot, †silver plated, eight sizes: 18, 20, 22, 24, 26, 28, 30 and 32 French Catheter Gauge .. .. .. each

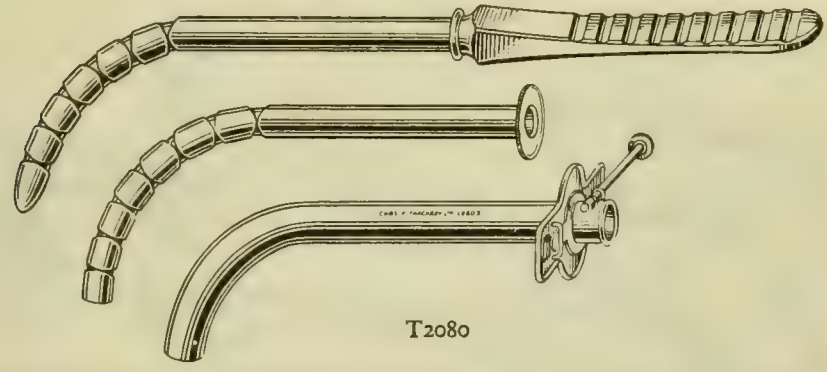
†*Can be supplied made of Sterling Silver, at extra cost. French Catheter Gauge: page* U194.
**Not illustrated.*



T2079

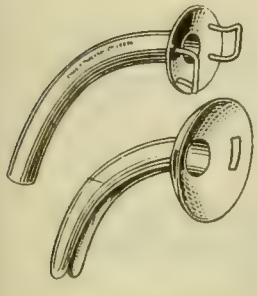
Cat. No.

T2079 DURHAM'S TRACHEOTOMY TUBE, "Lobster Tail", silver, with silver plated introducer, eight sizes: 18, 20, 22, 24, 26, 28, 30 and 32 French Catheter Gauge, each

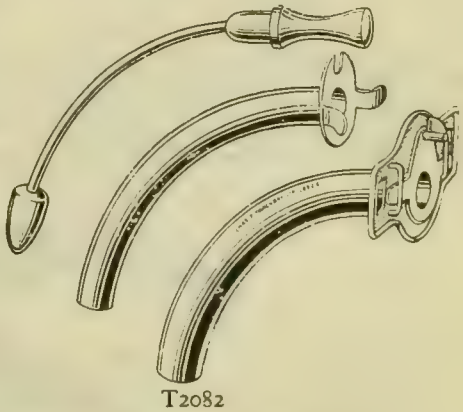


T2080

T2080 DURHAM'S TRACHEOTOMY TUBE, "Jumbo", as used by St. Clair Thomson, silver with silver plated introducer, 27 French Catheter Gauge .. each



T2081

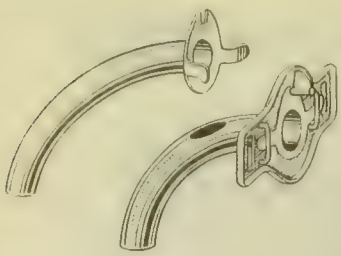


T2082

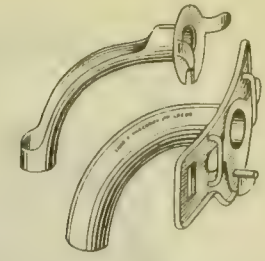
T2081 FULLER'S TRACHEOTOMY TUBE, †silver plated, ten sizes: 16, 17, 18, 20, 22, 24, 26, 28, 30 and 32 French Catheter Gauge .. .. .. each

T2082 CHEVALIER JACKSON'S TRACHEOTOMY TUBE, with pilot, †silver plated, eight sizes: 18, 20, 22, 24, 26, 28, 30 and 32 French Catheter Gauge .. each

†*Can be supplied made of Sterling Silver, at extra cost. French Catheter Gauge: page* U194.



T2083



T2085

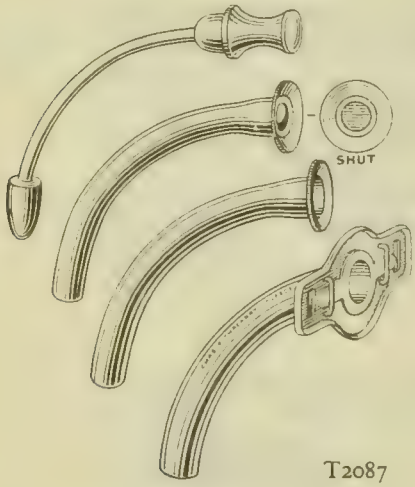
Cat. No.

T2083 LUER'S TRACHEOTOMY TUBE, †silver plated, eight sizes: 18, 20, 22, 24, 26, 28, 30 and 32 French Catheter Gauge .. .. each

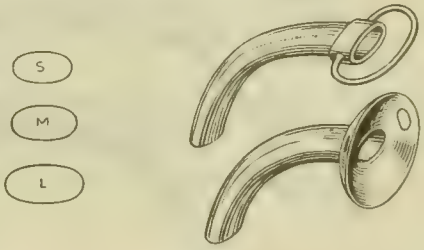
T2084 PILOTS for above, silver plated (please state tube size) .. .. each

T2085 PARKER'S TRACHEOTOMY TUBE, †silver plated, eight sizes: 18, 20, 22, 24, 26, 28, 30 and 32 French Catheter Gauge .. .. .. each

T2086 PILOTS for above, silver plated (please state tube size) .. .. each



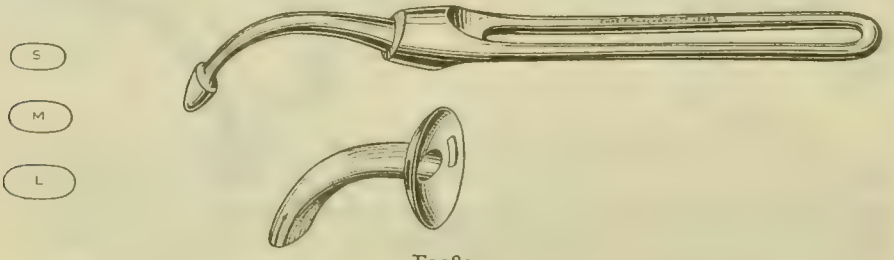
T2087



T2088

T2087 NEGUS' TRACHEOTOMY TUBE, with shutter valve and plain inner tube, solid silver, ten sizes: 18, 20, 22, 24, 26, 28, 30, 32, 34 and 36 French Catheter Gauge, complete with silver plated introducer. .. .. each

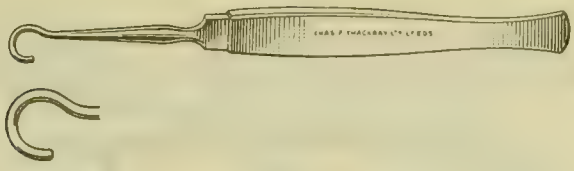
T2088 LARYNGOTOMY TUBE, †silver plated, three sizes: small, medium and large, each



T2089

T2089 BUTLIN'S LARYNGOTOMY TUBE, with introducer, †silver plated, three sizes: small, medium and large .. .. each

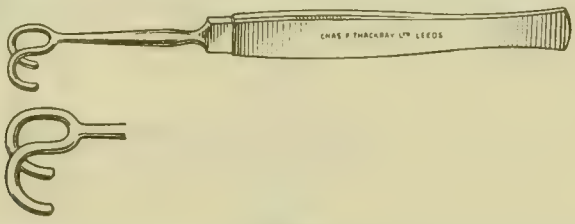
†*Can be supplied made of Sterling Silver, at extra cost. French Catheter Gauge: page* U194.



T2090

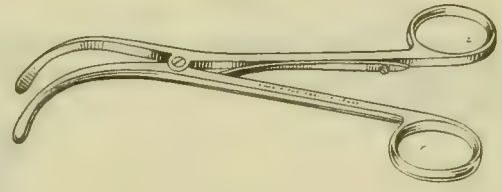
Cat. No.

T2090 TRACHEAL HOOK, single, blunt, stainless steel .. .. .. each
T2091 Ditto .. sharp point .. .. each



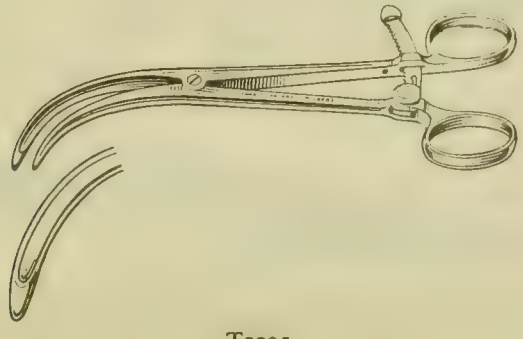
T2092

T2092 TRACHEAL HOOK, double, blunt, stainless steel .. .. each
T2093 Ditto .. sharp points .. .. each



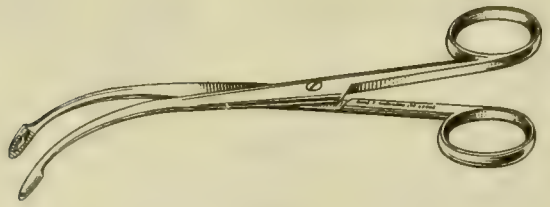
T2094

T2094 BOWLBY'S TRACHEAL DILATING FORCEPS, with spring, screw joint, stainless steel .. .. each



T2095

T2095 ST. CLAIR THOMSON'S LARYNGOTOMY DILATING FORCEPS, screw joint, stainless steel .. .. each



T2096

Cat. No.

T2096 CUBLEY'S TRACHEAL FORCEPS, for false membrane, screw joint, stainless steel .. .. each

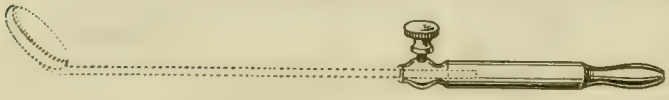


T2097

T2097 LARYNGEAL MIRROR, glass, boilable, chromium plated handle and stem, ten sizes: 6 mm., 8 mm., 10 mm., 12 mm., 14 mm., 16 mm., 18 mm., 20 mm., 22 mm. and 24 mm. diameter .. .. each



T2099



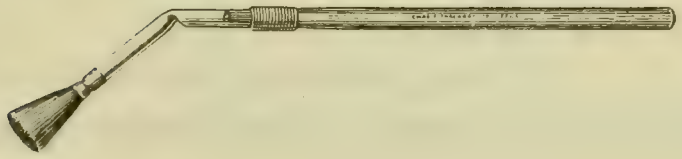
T2101

T2099 LARYNGEAL MIRROR, glass, boilable, chromium plated stem, ten sizes: 6 mm., 8 mm., 10 mm., 12 mm., 14 mm., 16 mm., 18 mm., 20 mm., 22 mm. and 24 mm. diameter .. .. each

T2101 Handle for laryngeal mirrors, chromium plated .. .. .. each



T2102

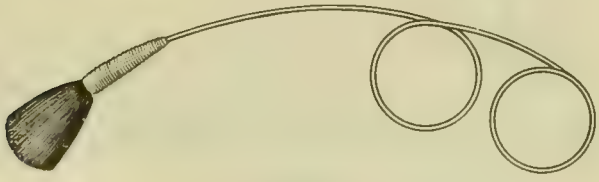


T2103

Cat. No.

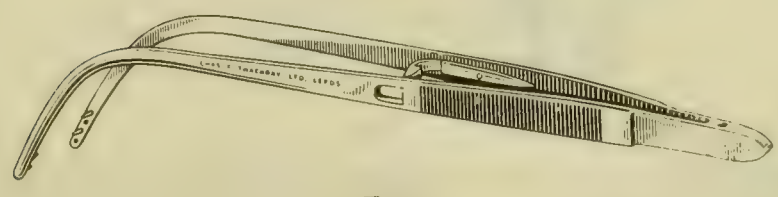
T2102 LARYNGEAL BRUSH, wooden handle, straight .. .. .. each

T2103 Ditto .. angled .. .. each



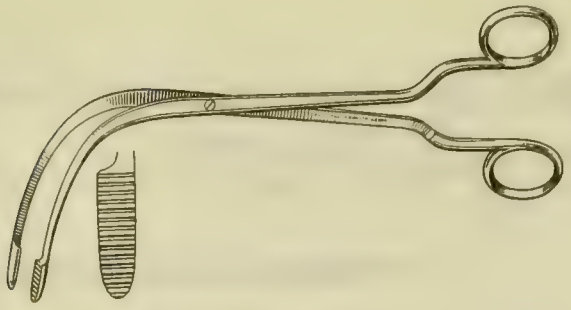
T2104

T2104 LARYNGEAL BRUSH, flexible wire stem .. .. .. each



T2105

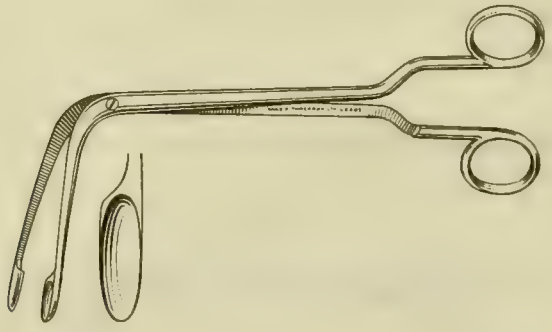
T2105 KRAUSE'S LARYNGEAL FORCEPS, with spring catch, 10½ in., stainless steel .. .. each



T2106

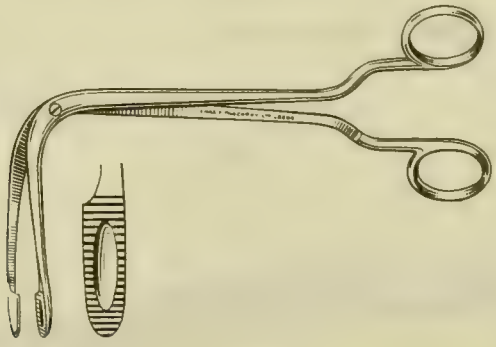
Cat. No.

T2106 BUCK'S LARYNGEAL FORCEPS, curved laterally, horizontal jaws, screw joint, stainless steel .. .. each



T2107

T2107 LACK'S LARYNGEAL FORCEPS, angled laterally, horizontal jaws, screw joint, stainless steel .. .. each

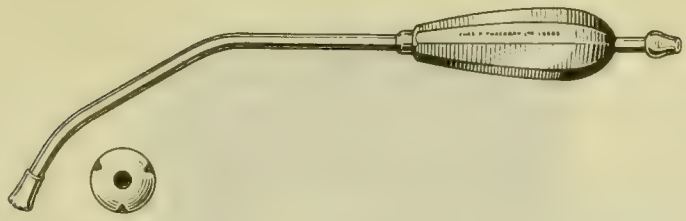


T2108

T2108 MACKENZIE'S LARYNGEAL FORCEPS, angled laterally, horizontal jaws, screw joint, stainless steel .. .. each

*T2109 Ditto .. angled-on-flat, jaws opening laterally .. .. .. each

Not illustrated

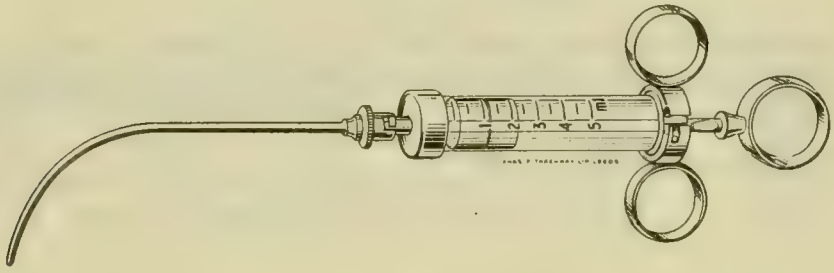


T2110

Cat. No.

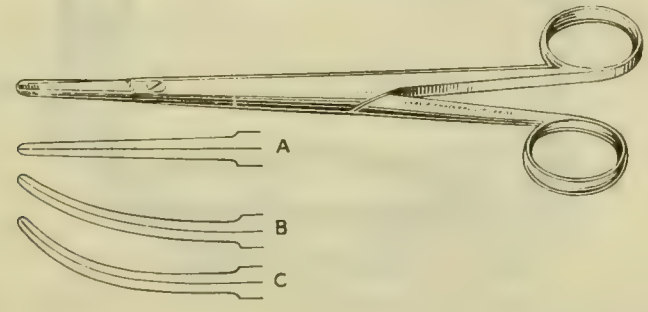
T2110 YANKAUER'S SUCTION TUBE, chromium plated .. .. each

Suction Pumps: see Electro-Surgical Catalogue Section.



T2111

T2111 LARYNGEAL SYRINGE, 5 ml., bayonet fitting nozzle, with chromium plated pipe, in chromium plated case .. .. complete



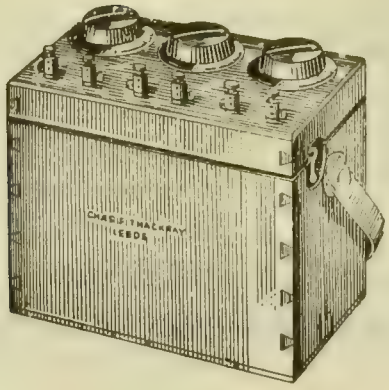
T2112–4

T2112 IRWIN MOORE'S LARYNGEAL SCISSORS, straight (A), 7 in., stainless steel .. .. each

T2113 Ditto .. curved (B) .. .. each

T2114 Ditto .. fully curved (C) .. .. each

LARYNGOSCOPY, BRONCHOSCOPY AND ŒSOPHAGOSCOPY INSTRUMENTS

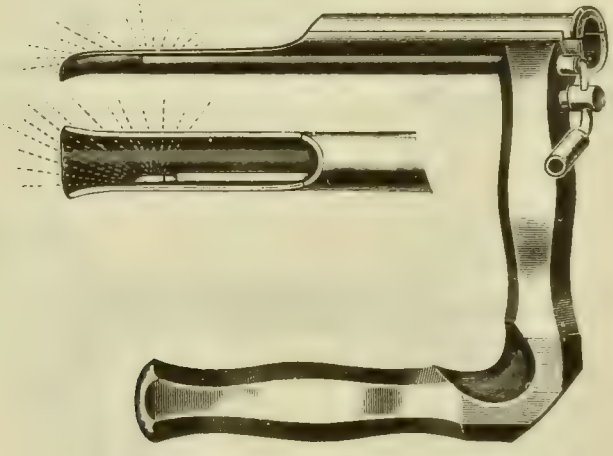


L2115

Cat. No.

L2115 CHEVALIER JACKSON'S TRIPLE BATTERY BOX, consisting of three dry batteries, each with independent rheostat, registering from zero to 4·5 volts, complete with three sets of terminals, each to take two sets of cables, in polished mahogany case, with leather carrying strap, size: 9½ in. by 5½ in. by 8 in. high each

L2116 Spare Batteries for above, 4·5 volts .. .. each



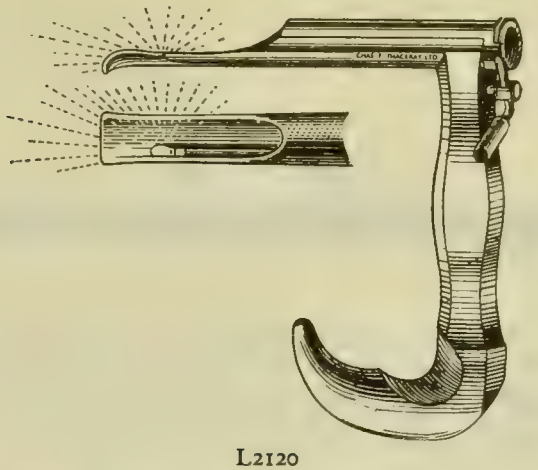
L2117

L2117 CHEVALIER JACKSON'S LARYNGOSCOPE, adults' size, with removable slide, two lamp carriers with lamps .. .. each

L2118 Spare Lamps for Chevalier Jackson's Lamp Carriers, 3·5 volts each

L2119 Cables, rubber covered, for Chevalier Jackson's Lamp Carriers .. each

NOTE.—Diagnostic Sets, Headmirrors, Headlamps and Examination Lamps: see Catalogue section of Clinical Diagnosis Instruments.



L2120

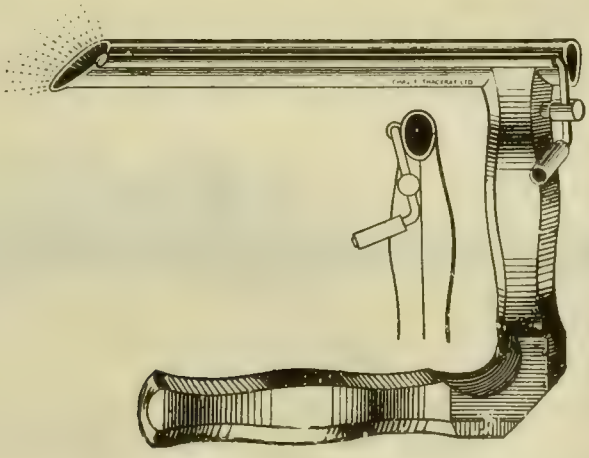
Cat. No.

L2120 CHEVALIER JACKSON'S LARYNGOSCOPE, children's size, with removable slide, two lamp carriers with lamps .. .. each

L2121 Ditto .. infants' size .. .. each

L2122 Spare Lamps for Chevalier Jackson's Lamp Carriers, 3·5 volts .. each

L2123 Cables, rubber covered, for Chevalier Jackson's Lamp Carriers .. each



L2124

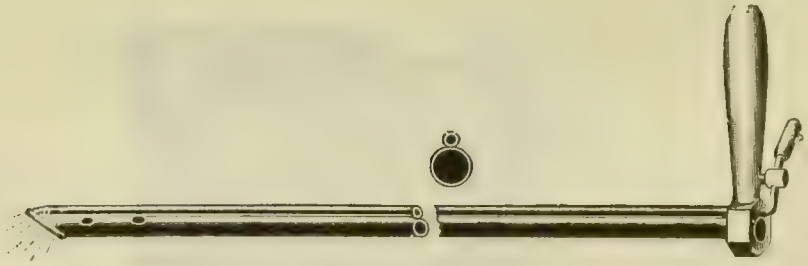
L2124 CHEVALIER JACKSON'S LARYNGOSCOPE, anterior commissure, adults' size, with removable slide, two lamp carriers with lamps .. .. each

L2125 Ditto .. children's size .. .. each

L2126 Spare Lamps for Chevalier Jackson's Lamp Carriers, 3·5 volts .. each

L2127 Cables, rubber covered, for Chevalier Jackson's Lamp Carriers .. each

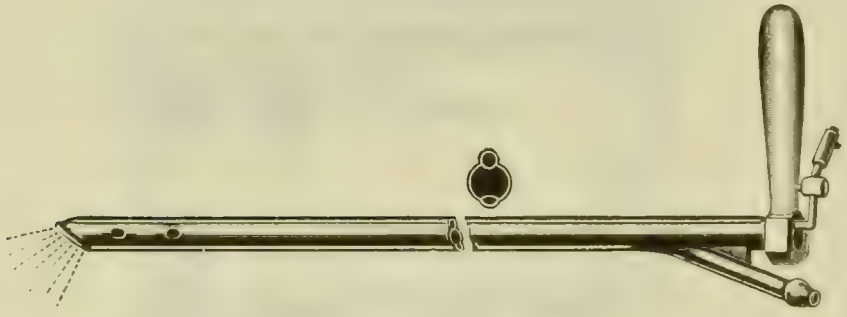
LARYNGOSCOPY, BRONCHOSCOPY AND ŒSOPHAGOSCOPY INSTRUMENTS



L2128

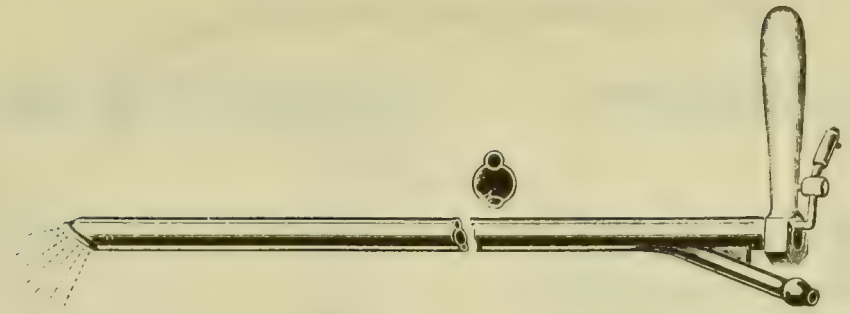
Cat. No.

L2128	CHEVALIER JACKSON'S BRONCHOSCOPE, standard model, adults' size: 40 cm. long, 9 mm. internal diameter, with two lamp carriers with lamps	each
L2129	Ditto .. adults' size: 40 cm. long, 8 mm. internal diameter ..	each
L2130	Ditto .. adolescents' size: 40 cm. long, 7 mm. internal diameter ..	each
L2131	Ditto .. children's size: 35 cm. long, 6 mm. internal diameter ..	each
L2132	Ditto .. children's size: 30 cm. long, 5 mm. internal diameter ..	each
L2133	Ditto .. infants' size: 30 mm. long, 4 mm. internal diameter ..	each
L2134	Spare Lamps for Chevalier Jackson's Lamp Carriers, 3·5 volts ..	each
L2135	Cables, rubber covered, for Chevalier Jackson's Lamp Carriers ..	each



L2136

L2136	CHEVALIER JACKSON'S ASPIRATING BRONCHOSCOPE, standard model, adults' size: 40 cm. long, 8 mm. internal diameter, with two lamp carriers with lamps	each
L2137	Ditto .. adolescents' size: 40 cm. long, 7 mm. internal diameter ..	each
L2138	Ditto .. adolescents' size: 40 cm. long, 5 mm. internal diameter ..	each
L2139	Ditto .. children's size: 30 cm. long, 5 mm. internal diameter ..	each
L2140	Spare Lamps for Chevalier Jackson's Lamp Carriers, 3·5 volts ..	each
L2141	Cables, rubber covered, for Chevalier Jackson's Lamp Carriers ..	each



L2142

Cat. No.

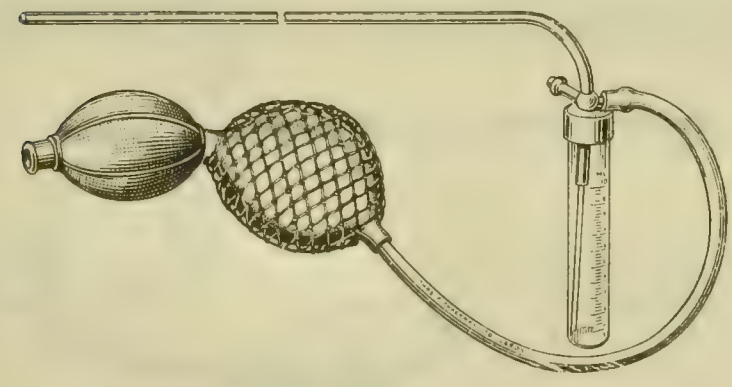
L2142 CHEVALIER JACKSON'S ASPIRATING ŒSOPHAGOSCOPE, standard model, size: 45 cm. long, 9 mm. internal diameter; with two lamp carriers with lamps .. .. each

L2143 Ditto .. size: 45 cm. long, 8 mm. internal diameter .. .. each

L2144 Ditto .. size: 45 cm. long, 7 mm. internal diameter .. .. each

L2145 Spare Lamps for Chevalier Jackson's Lamp Carriers, 3·5 volts .. each

L2146 Cables, rubber covered, for Chevalier Jackson's Lamp Carriers .. each



L2147

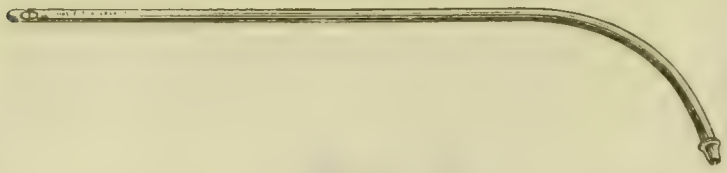
L2147 CLERF'S COCAINE SPRAY, with 40 cm. nickel plated tube, graduated glass chamber and rubber double bellows .. .. each

L2148 Ditto .. with 28 cm. tube .. .. each

L2149 Spare Glass Chambers .. .. each

L2150 Spare Rubber Bellows .. .. each

LARYNGOSCOPY, BRONCHOSCOPY AND ŒSOPHAGOSCOPY INSTRUMENTS



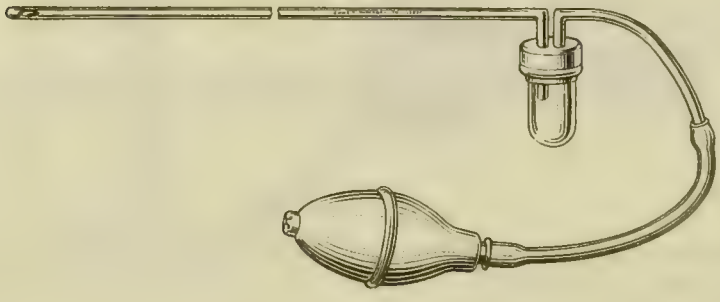
L2151

Cat. No.		
L2151	CHEVALIER JACKSON'S LARYNGEAL ASPIRATING TUBE, with lateral eyes, nickel plated, 20 cm.	each
L2152	Ditto .. Bronchoscopic, 35 cm.	each
L2153	Ditto .. 45 cm.	each
L2154	Ditto .. Œsophageal, 55 cm.	each



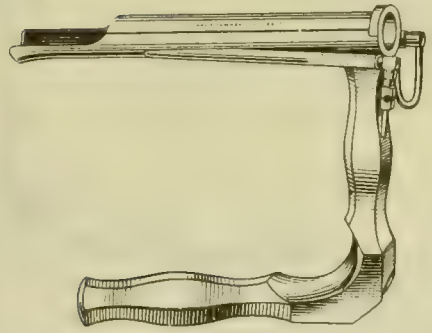
L2155

L2155	NEGUS' ASPIRATING TUBE, nickel plated, gum-elastic end with terminal hole, 55 cm.	each
L2156	Spare Gum-elastic Ends	each

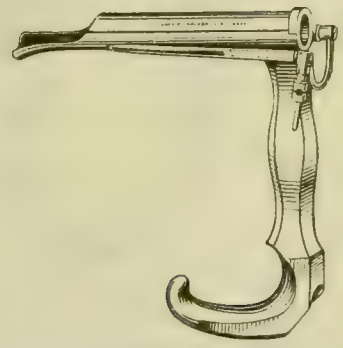


L2157

L2157	CLERF'S SPECIMEN COLLECTOR, with 45 cm nickel plated aspirating tube, glass chamber and rubber bulb	each
L2158	Spare Glass Chambers	each
L2159	Spare Rubber Bulbs	each



L2160



L2161

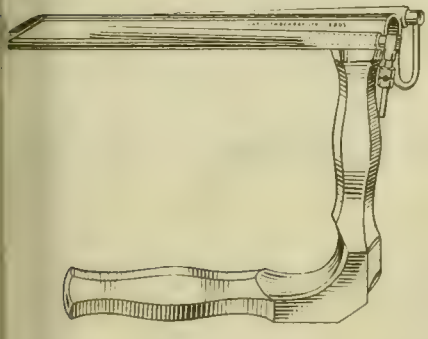
Cat. No.

L2160 NEGUS' LARYNGOSCOPE, adults' size, with removable slide, twin lamp carrier with lamps .. .. each

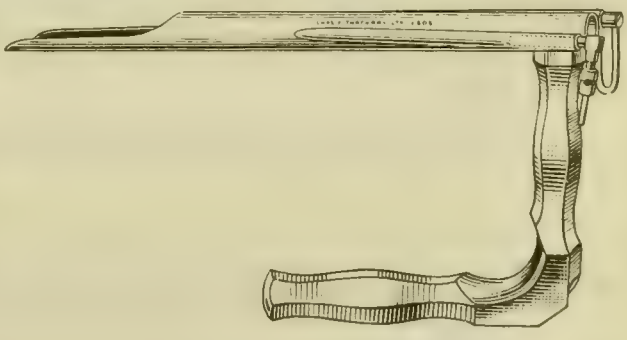
L2161 NEGUS' LARYNGOSCOPE, children's size, with removable slide, twin lamp carrier with lamps .. .. each

L2162 Spare Lamps for Negus' Lamp Carriers, 3·5 volts .. .. .. each

L2163 Cables, rubber covered, for Negus' Lamp Carriers .. .. .. each



L2164



L2165

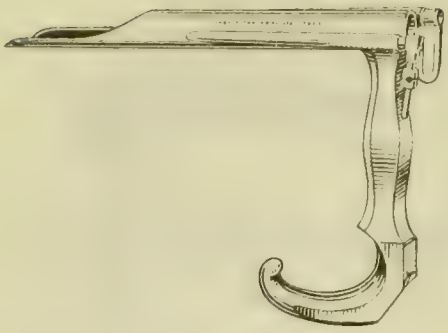
L2164 NEGUS' LARYNGOSCOPE, anterior commissure, with twin lamp carrier with lamps .. .. each

L2165 NEGUS' ŒSOPHAGEAL SPECULUM, adults' size, with twin lamp carrier with lamps .. .. each

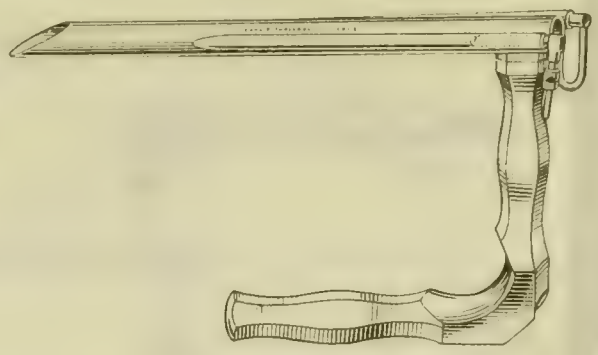
L2166 Spare Lamps for Negus' Lamp Carriers, 3·5 volts .. .. .. each

L2167 Cables, rubber covered, for Negus' Lamp Carriers .. .. each

LARYNGOSCOPY, BRONCHOSCOPY AND ŒSOPHAGOSCOPY INSTRUMENTS



L2168



L2169

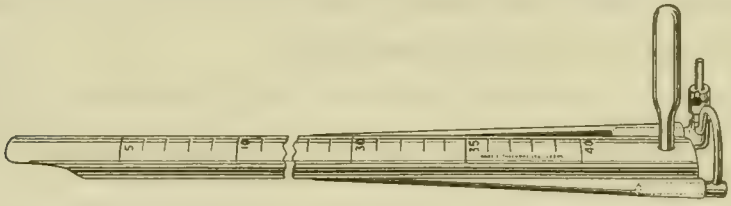
Cat. No.

L2168 NEGUS' ŒSOPHAGEAL SPECULUM, children's size, with twin lamp carrier with lamps .. .. each

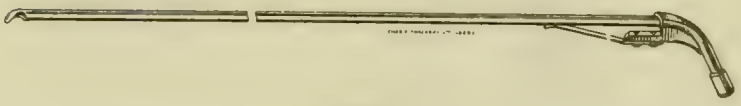
L2169 NEGUS' ŒSOPHAGEAL SPECULUM, with bevelled end, adults' size, with twin lamp carrier with lamps .. .. each

L2170 Spare Lamps for Negus' Lamp Carriers, 3·5 volts .. .. .. each

L2171 Cables, rubber covered, for Negus' Lamp Carriers .. . .. each



L2173



L2177

L2172 NEGUS' ŒSOPHAGOSCOPE, adults' size, extra long, full lumen: 53 cm. long, 15·6 by 17·6 mm. internal diameter; graduated in cms., with twin lamp carriers with lamps .. .. each

L2173 Ditto .. adults' size, long, full lumen: 45 cm. long, 15·6 by 17·6 mm. internal diameter .. .. each

L2174 Ditto .. adults' size, long, medium lumen: 45 cm. long, 11·6 by 13·6 mm. internal diameter .. .. each

L2175 Ditto .. adults' size, short: 35 cm. long, 13·6 by 15·6 mm. internal diameter, each

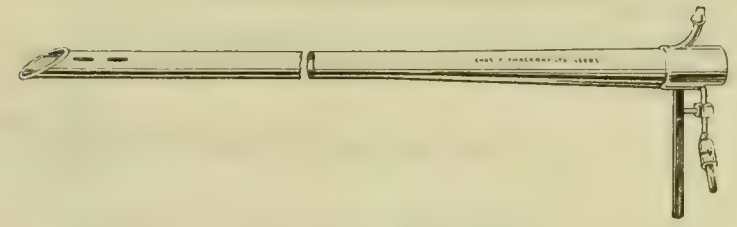
L2176 Ditto .. children's size: 35 cm. long, 8 by 10 mm. internal diameter .. each

L2177 NEGUS' SUCTION TUBE, for 35 cm. Œsophagoscopes .. .. each

L2178 Ditto .. for 45 cm. Œsophagoscopes .. .. each

L2179 Ditto .. for 53 cm. Œsophagoscopes .. .. each

Spare Lamps and Cables: L2170-1



L2180

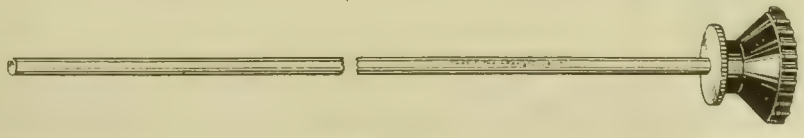
Cat. No.		
L2180	NEGUS' BRONCHOSCOPE, adults' size: 40 cm. long, 10 mm. internal diameter, with two lamp carriers with lamps	each
L2181	Ditto .. adults' size, small: 40 cm. long, 9 mm. internal diameter	each
L2182	Ditto .. adolescents' size: 40 cm. long, 8 mm. internal diameter ..	each
L2183	Ditto .. children's size: 30 cm. long, 7 mm. internal diameter ..	each
L2184	Ditto .. infants' size: 27·5 cm. long, 5·4 mm. internal diameter ..	each
L2185	Ditto .. sucklings' size: 27·5 cm. long, 4·1 mm. internal diameter	each
L2186	Ditto .. lower bronchus: 45 cm. long, 6·4 mm. internal diameter ..	each
L2187	Spare Lamps for Negus' Lamp Carriers, 3·5 volts	each
L2188	Cables, rubber covered, for Negus' Lamp Carriers	each

Aspirating Bronchoscopes : page L402.



L2189

L2189	RIGHT ANGLE TELESCOPE, for inspection of upper lobe bronchus: 48 cm. long, 5 mm. diameter, chromium plated, with one Spare Lamp, Switch and rubber covered cables	each
*L2190	Ditto .. retrograde telescope	each
L2191	Spare Lamps for above telescopes, Ref. No. BS50, 3·5 volts	each
L2191A	Spare Switch and Cables	each



L2192

L2192	DIRECT VISION TELESCOPE, non-illuminated, 44 cm. long, for use with adults' size bronchoscopes, chromium plated	each
L2193	Ditto .. 30 cm. long, for use with children's size bronchoscopes ..	each

**Not illustrated*

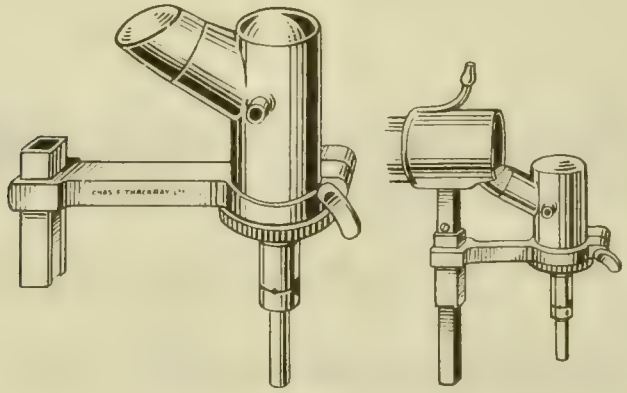
LARYNGOSCOPY, BRONCHOSCOPY AND ŒSOPHAGOSCOPY INSTRUMENTS



L2194

Cat. No.

L2194	NEGUS' ASPIRATING BRONCHOSCOPE, adults' size: 40 cm. long, 7·5 mm. internal diameter, with two lamp carriers with lamps	each
L2195	Ditto .. children's size: 30 cm. long, 6·5 mm. internal diameter ..	each
L2196	Spare Lamps for Negus' Lamp Carriers, 3·5 volts	each
L2197	Cables, rubber covered, for Negus' Lamp Carriers	each



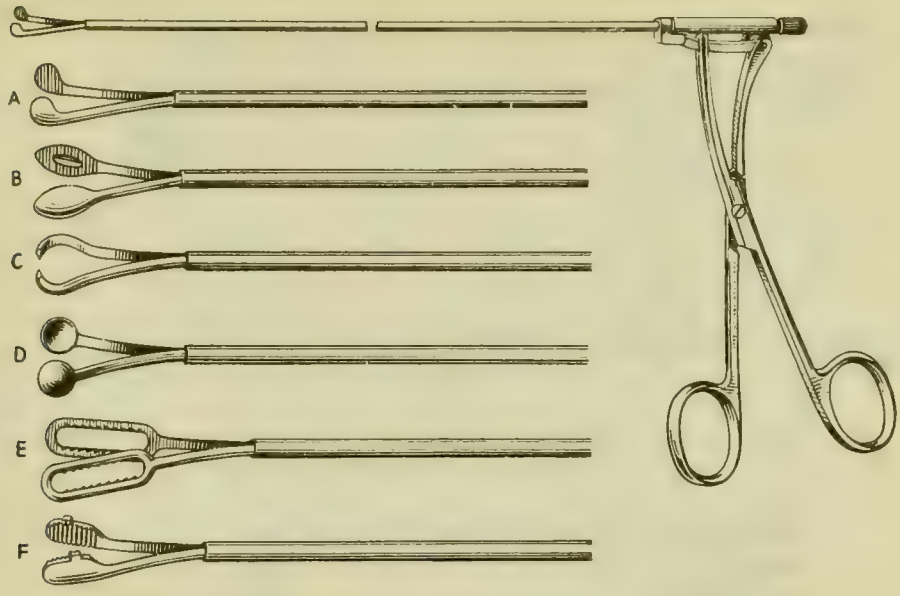
L2198

L2198	Lamp Attachment for proximal illumination of Negus' Bronchoscopes ..	each
L2199	Spare Lamps for above, 3·5 volts	each



L2200

L2200	COOLIDGE'S SWAB HOLDER, nickel plated, 40 cm.	each
L2201	Ditto .. 60 cm.	each



L2202–7

Cat. No.

L2202 CHEVALIER JACKSON'S SIDE GRASPING FORCEPS (A), with tempered steel jaws *fixed* to stainless steel shaft, on stainless steel Negus' Handle, lengths of shafts: 35, 45, 50 and 60 cm. .. .. each

L2203 Ditto .. FORWARD GRASPING (B) .. .. each

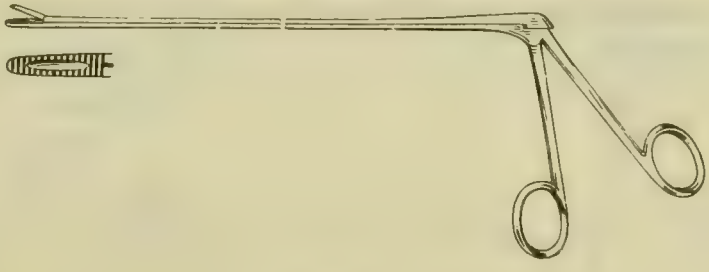
L2204 Ditto .. ROTATION FORCEPS (C) .. .. each

L2205 Ditto .. BIOPSY (D) .. .. each

L2206 Ditto .. FENESTRATED (E) .. .. each

L2207 Ditto .. TUCKER'S TACK AND PIN (F) .. .. .. each

Handle with shaft only, and forceps fixed to stilettes only to fit handle, can be supplied separately.

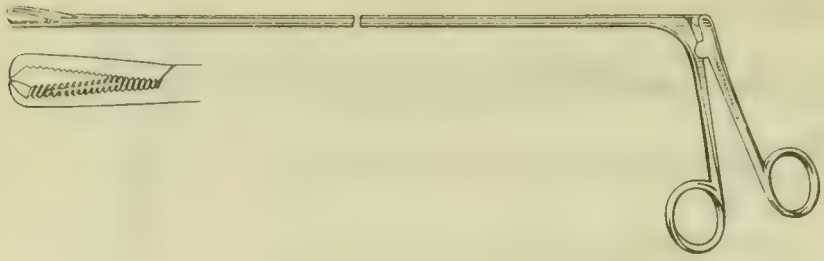


L2208

L2208 CHEVALIER JACKSON'S GRASPING FORCEPS, stainless steel, †sizes: 28, 35, 40 and 50 cm. .. .. each

†*Working length.*

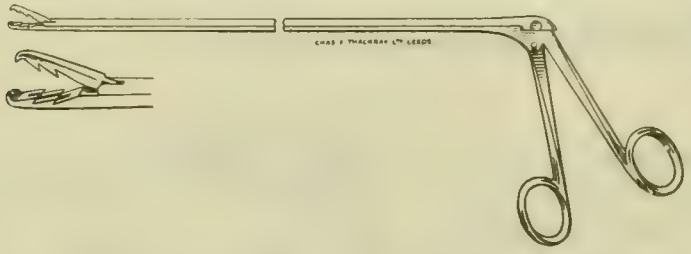
LARYNGOSCOPY, BRONCHOSCOPY AND ŒSOPHAGOSCOPY INSTRUMENTS



L2209

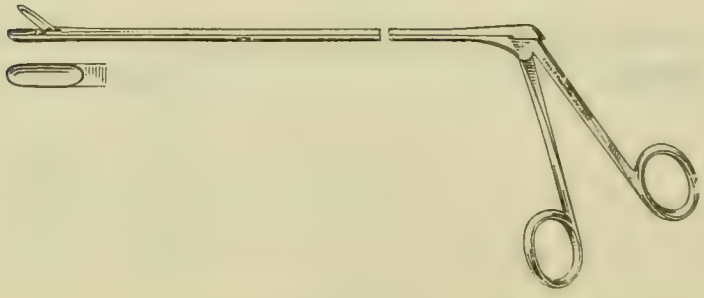
Cat. No.

L2209 CHEVALIER JACKSON'S ROTATION FORCEPS, stainless steel, †sizes: 28 and 35 cm. .. .. each



L2210

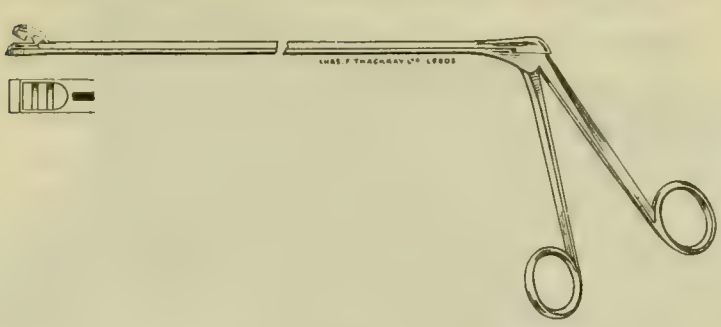
L2210 CHEVALIER JACKSON'S FOREIGN BODY FORCEPS, stainless steel, †40 cm. .. .. each



L2211

L2211 PATERSON'S FORCEPS, with cutting jaws, stainless steel, †sizes: 28, 35, 45 and 50 cm. .. .. each

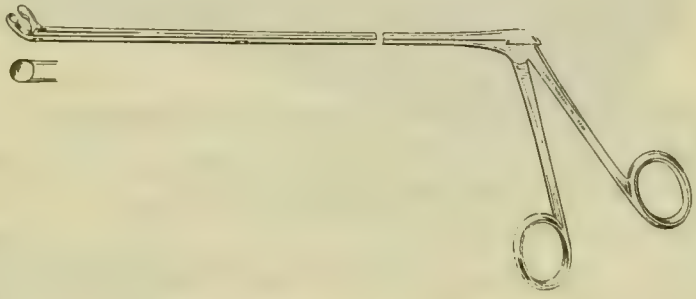
†*Working length.*



L2212

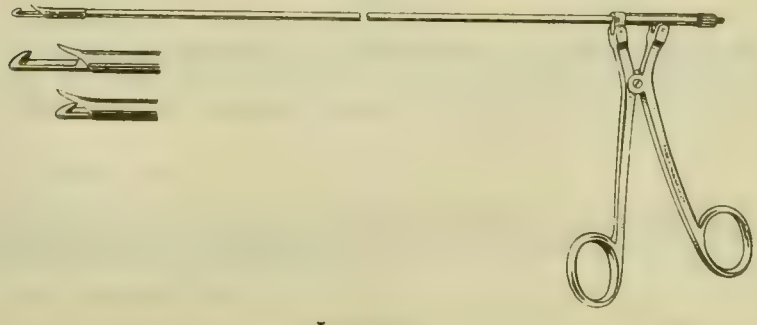
Cat. No.

L2212 CHEVALIER JACKSON'S SPECIMEN FORCEPS, "Basket-punch" jaws, stainless steel, †sizes: 28, 35, 40, 45, 50 and 60 cm. .. .. each



L2213

L2213 CHEVALIER JACKSON'S NODULE FORCEPS, stainless steel, †sizes: 28, 35 and 50 cm. .. .. each

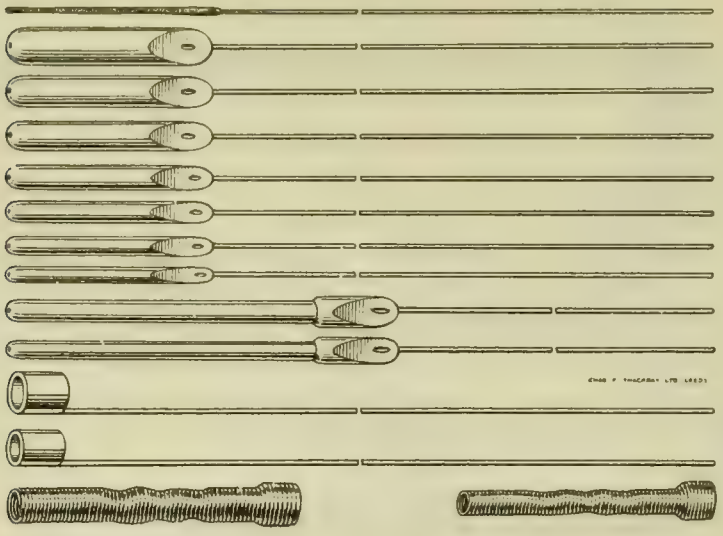


L2214

L2214 ROBERTS' PUNCH FORCEPS, stainless steel, †50 cm. .. .. each

†*Working length.*

LARYNGOSCOPY, BRONCHOSCOPY AND ŒSOPHAGOSCOPY INSTRUMENTS



L2215–6

Cat. No.

L2215 SOUTTAR'S ŒSOPHAGEAL INTUBATION SET, consisting of:
One Bougie, nickel plated shaft, gum-elastic end:
Seven Dilators, nickel plated shafts, aluminium ends, sizes: 5 to 11 mm. diameter:
Two Tube Introducers, nickel plated, one each two sizes:
Two Rings for releasing tubes, nickel plated, one each two sizes:
Set of above items (without tubes) .. .. .. complete

L2216 SOUTTAR'S ŒSOPHAGEAL INTUBATION TUBES, gold plated, spiral wire, two sizes: large and small .. .. each



L2217

L2217 CHEVALIER JACKSON'S ŒSOPHAGEAL and BRONCHOSCOPIC DILATOR, nickel plated shaft fitted with gum-elastic dilator end, sizes: 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 24, 26, 28 and 30 French Catheter Gauge, each



L2218

L2218 HURST'S ŒSOPHAGEAL BOUGIE, rubber, filled with mercury, 30 in., sizes: 18, 20, 22, 24, 26, 28, 30, 32 and 34 English Catheter Gauge .. each

Catheter Gauges: page U194.



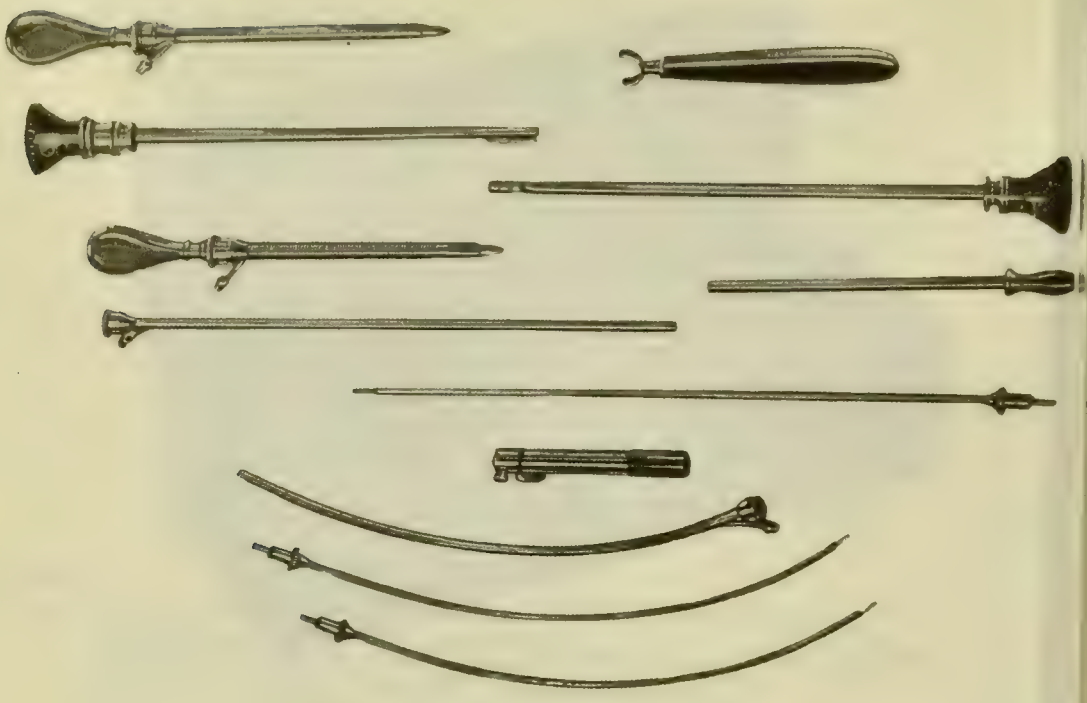
L2219

Cat. No.

L2219 CORYLLOS' THORACOSCOPE, consisting of:
One Telescope, 90° view.
One Telescope, forward-oblique vision.
One Light Carrier with two spare lamps.
One set of Cables, rubber covered, for above
One Long Galvano-Cautery.
One Ventilating Sleeve for above.
One Short Galvano-Cautery.
One Ventilating Sleeve for above.
One Ball Electrode.
One High Frequency Cable, rubber covered for above.
One Cautery Handle.
One set of Cables, rubber covered for above.
One Trocar.
Two Cannulæ for above.
One Insufflation Bulb with Luer-lock Connector.
One Cleaning Rod.
One Footswitch with rubber covered cables.
One Mains Connecting Cable and Socket.
In Polished Mahogany Case with built-in Light and Cautery Transformer (*Please state voltage*) *A.C. Mains only* .. .. complete

L2220 Ditto .. but without Transformer .. .. complete

L2221 Spare Lamps for Light Carrier, 3·5 volts .. .. each



L2222

Cat. No.

L2222 KREMER-JACOBÆUS' THORACOSCOPE, double puncture, consisting of:

One Telescope, 90° view, with spare lamp,

One Telescope, direct vision, with light carrier and spare lamp.

One set of Cables, rubber covered, for above telescopes.

Two Flexible Cannulæ with air vents, and trocars for introduction of telescope and Cauteries.

One Galvano-Cautery, straight.

One Ventilating Sleeve for above.

Two Galvano-Cauteries, curved.

One Ventilating Sleeve for above.

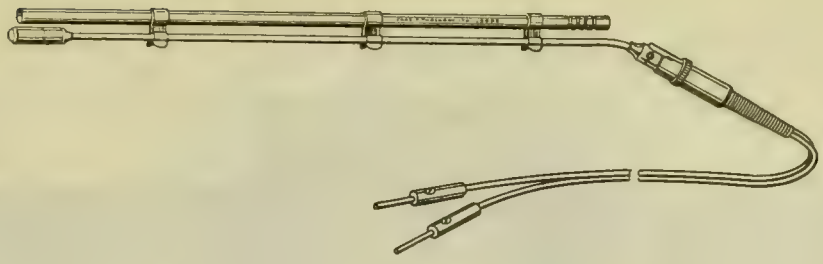
One Aspirating Cannula.

One Handle and rubber covered cables for cauteries.

In polished mahogany case .. .. complete

L2223 Spare Lamps for 90° view telescope, 3·5 volts .. .. .. each

L2224 Spare Lamps for direct vision telescope, 3·5 volts .. .. .. each



L2225

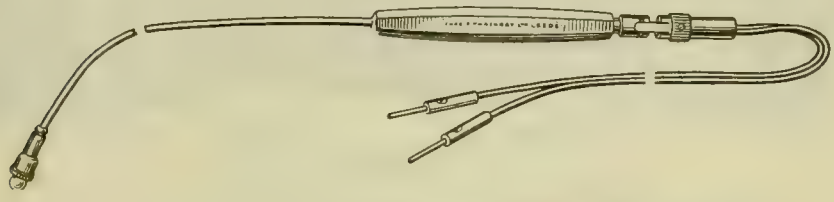
Cat. No.

L2225 EVERIDGE'S LIGHT AND SUCTION TUBE, consisting of: chromium plated suction tube and detachable light carrier complete with rubber covered cables and spare lamp .. .. each

L2226 Ditto .. curved .. .. each

L2227 Spare Lamps for above, 3·5 volts .. .. each

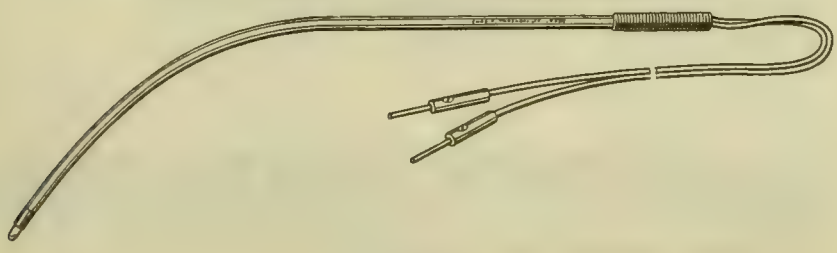
Vide the "Lancet", May 3rd, 1952. Page 905.



L2228

L2228 NELSON'S LIGHT, malleable shaft, chromium plated, complete with rubber covered cables and spare lamp .. .. each

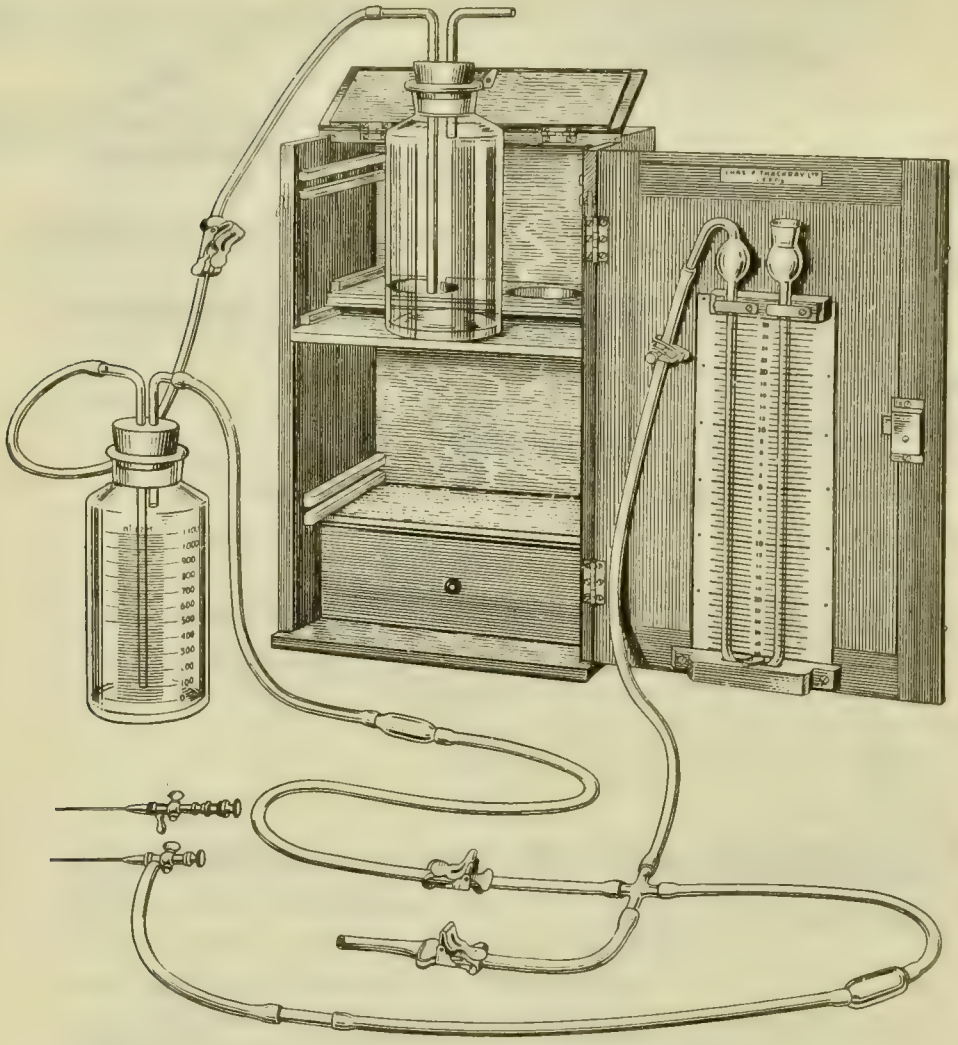
L2229 Spare Lamps for above, 6 volts .. .. each



L2230

L2230 WARD'S LIGHT, malleable shaft, complete with rubber covered cables and spare lamp .. .. each

L2231 Spare Lamps for above, 3·5 volts .. .. each



L2232

Cat. No.

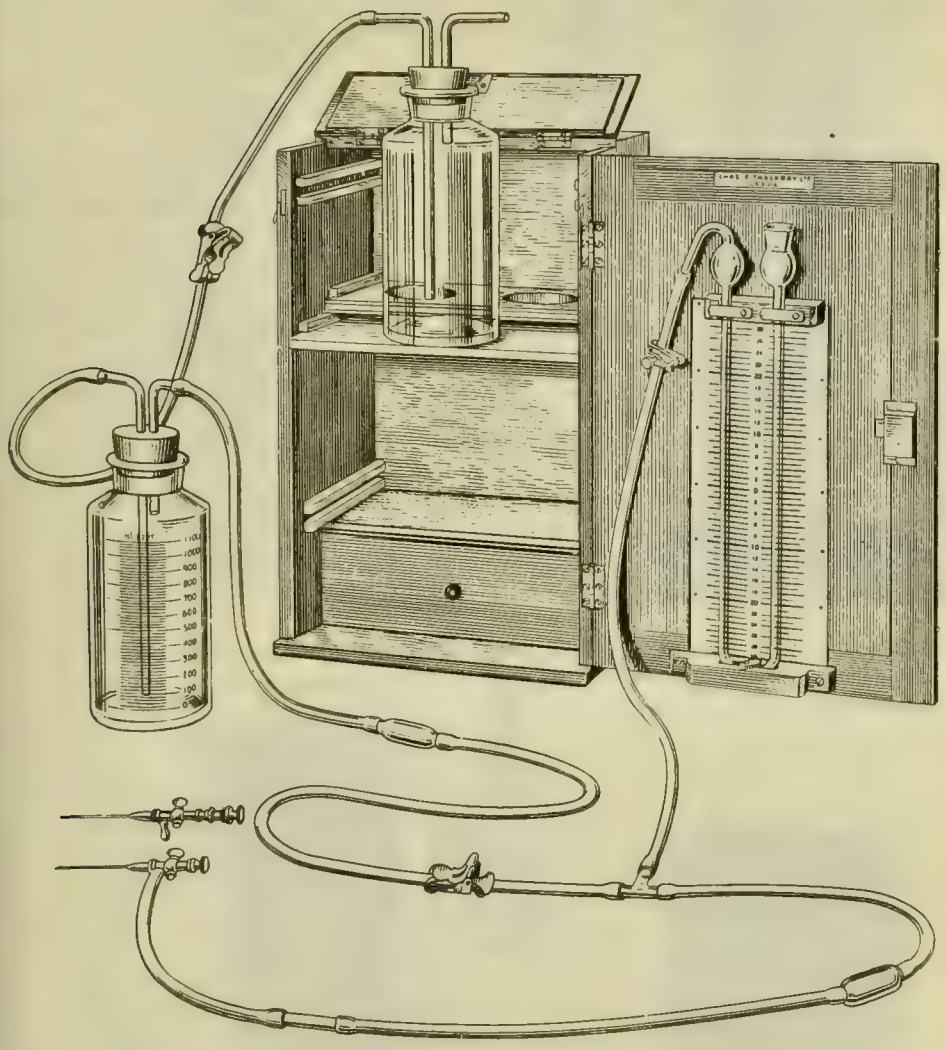
L2232 BURRELL'S ARTIFICIAL PNEUMOTHORAX APPARATUS, complete with bottles, fittings and two Saugmann's Needles: initial and refill; in polished mahogany case .. .. complete

This apparatus is fitted with a four-way glass connection.

L2233 Spare Plain Bottles for above .. .. each

L2234 Spare Graduated Bottles for above .. .. each

L2235 Spare Manometer Tubes for above .. .. each



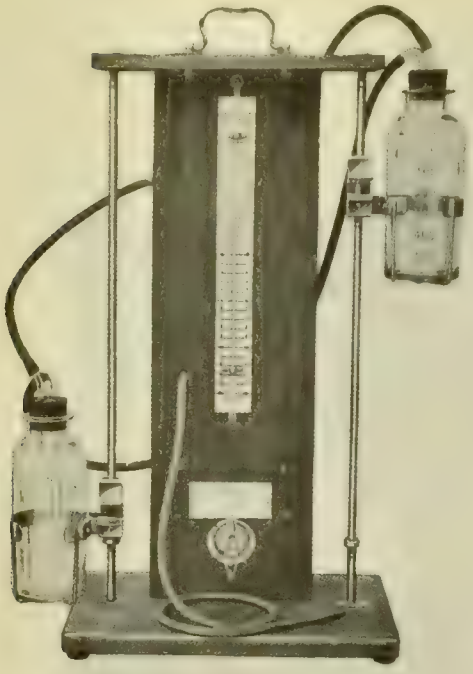
L2236

Cat. No.

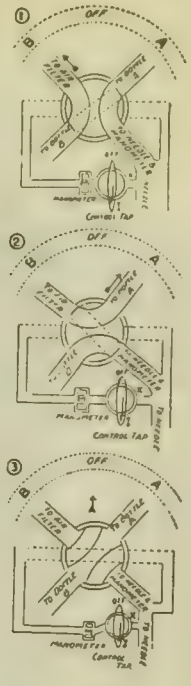
L2236	LILLINGSTON AND PEARSON'S ARTIFICIAL PNEUMOTHORAX APPARATUS, complete with bottles, fittings and two Saugmann's Needles: initial and refill; in polished mahogany case .. .. .. complete	
L2237	Spare Plain Bottles, for above	each
L2238	Spare Graduated Bottles for above	each
L2239	Spare Manometer Tubes for above	each

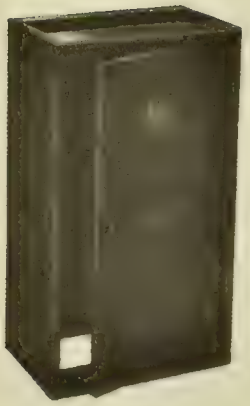
LUNG AND CHEST INSTRUMENTS

PETER EDWARDS' AND CUTBILL'S ARTIFICIAL PNEUMOTHORAX APPARATUS

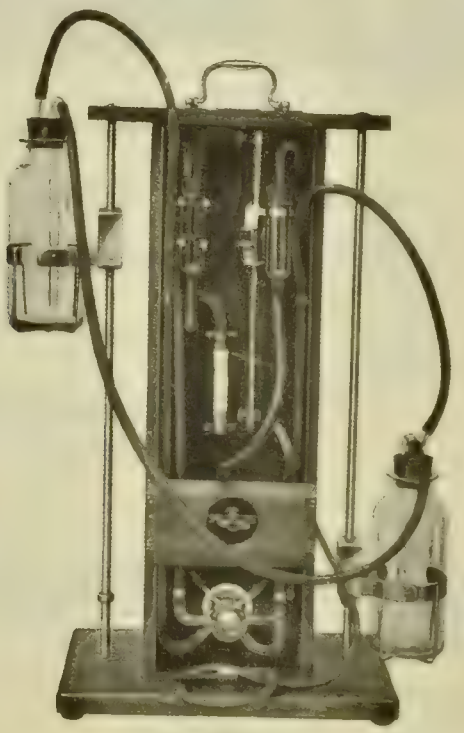


FRONT





OUTER COVER



REAR

Please see opposite for specification.

Cat. No.

L2240 PETER EDWARDS' AND CUTBILL'S ARTIFICIAL PNEUMOTHORAX APPARATUS, complete with bottles and fittings, but *without* needles, in polished mahogany case .. .. complete

L2241 Spare Plain Bottles for above .. .. each

L2242 Spare Graduated Bottles for above .. .. each

L2243 Spare Manometer Tubes for above .. .. each

The components are fixed to a stout wooden panel and the two bottles can be raised, lowered or maintained at any desired height on two vertical rods by means of clips. The bottles are of equal size, holding approximately 560 c.c. One is calibrated from 0 to 500 c.c. in ten c.c. divisions, graduations being marked to read in both directions. These bottles are connected by means of a wide syphon tube, thus securing rapid flow of water and therefore a rapid flow of air. The air outlet from each bottle is connected to the two opposite arms of a special six-way tap. The remaining arms of the tap are connected—one to the air via an air filter, the other communicating with the needle and two side tubes, one to the arm at the rear of the barrel of the main tap and the other—through a control tap—at the back of the panel to the manometer direct. If the control tap is closed the needle arm has only communication with the manometer via the rear arm of the main tap.

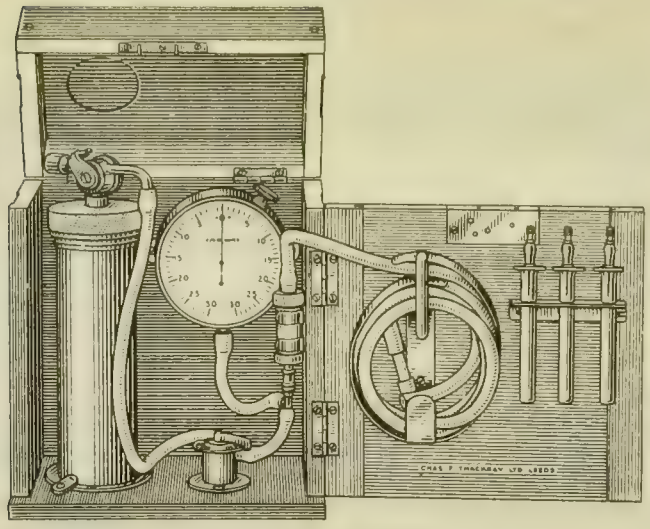
In figure 3, when control tap is closed, there is communication established between needle and manometer *via* rear of main tap and pleural pressures are registered. With the control tap closed and main tap in either A or B position, figures 1 and 2, the manometer is cut off from the needle arm, there is no danger of either sucking or blowing the manometer liquid into the apparatus. Should it be desirable to have the manometer registering pressures during the introduction into, or withdrawal of air from the chest, the control tap X is turned on, and the manometer functions irrespective of the position of the main tap.

The air filter consists of a wide-bore glass tube plugged at either end with non-absorbent cotton-wool and filled with glass-wool moistened with 50 per cent glycerine in water.

The bottles are labelled A and B, and filled with copper sulphate solution. There are positions marked on a quadrant on a panel corresponding to the letters on the bottle. The manometer is filled with similar fluid to that in the bottle, and it records direct pressure variations in centimetres. When one bottle is raised and the handle of the tap turned so that it points to the corresponding letter on the quadrant, air is forced out through the needle. By reversing the position of the bottles and the tap, an almost constant supply of air can be driven through the needle at any desired pressure, regulated by the height of the bottle. If the tap is turned to the letter corresponding to the lower of the bottles, the direction of the air flow is reversed and gas can easily be withdrawn from the chest.

Midway between the two letters on the panel is the "off" position. This isolates the bottles from each other, from the air inlet, and from the outlet to the manometer and needle.

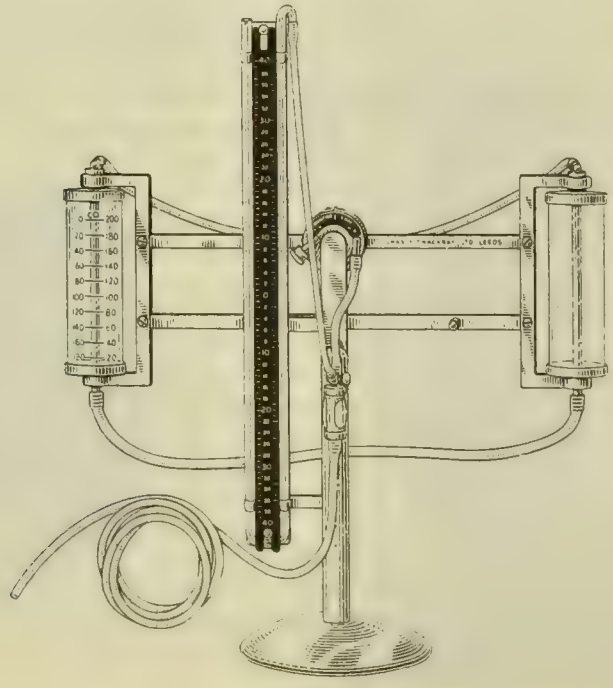
An outer wooden cover, which can easily be lifted off, is provided to protect the apparatus in transit.



L2244

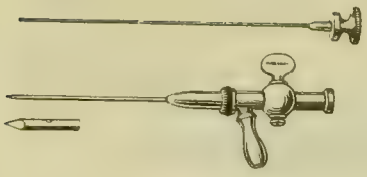
Cat. No.

L2244 MAXWELL'S PORTABLE ARTIFICIAL PNEUMOTHORAX APPARATUS, complete with pump, aneroid manometer and fittings, but *without* needles, in polished mahogany case .. .. complete

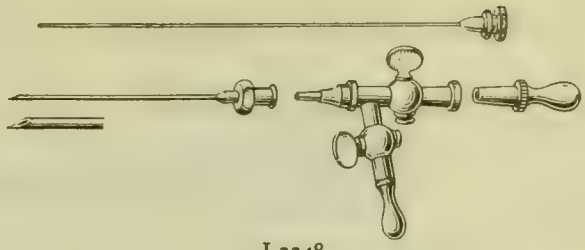


L2245

L2245 STOTT'S ARTIFICIAL PNEUMOTHORAX APPARATUS, complete with glass chambers and fittings but *without* needles .. .. .. complete



L2246



L2248

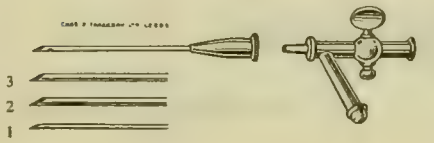
Cat. No.

L2246 CHANDLER'S PNEUMOTHORAX NEEDLE, refill, stainless steel, trocar pointed, lateral hole, 18 B.W.G., with stilette and nickel plated stopcock .. each

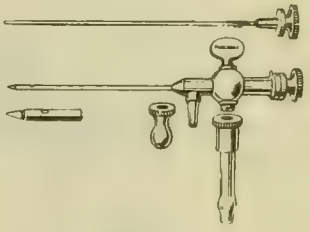
L2247 Spare Needles for above, screw-on .. .. each

L2248 MORRISTON DAVIES' PNEUMOTHORAX NEEDLE, stainless steel, 18 B.W.G., with stilette and nickel plated mount and stopcock .. .. each

L2249 Spare Needles for above, plug-on .. .. each



L2250



L2255

L2250 PETER EDWARDS' PNEUMOTHORAX NEEDLES, consisting of: nickel plated stopcock and one of each stainless steel needles, Nos. 1, 2 and 3 .. complete

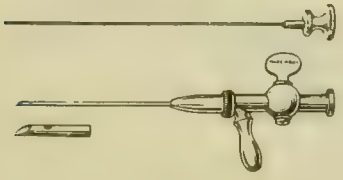
L2251 Ditto .. stopcock only .. .. each

L2252 Ditto .. needle only No. 1, with lateral hole, 20 B.W.G. stainless steel, each

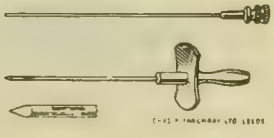
L2253 Ditto .. No. 2 with lateral slot, 18 B.W.G. .. .. .. each

L2254 Ditto .. No. 3 with lateral hole, 18 B.W.G. .. .. .. each

L2255 KUSS' PNEUMOTHORAX NEEDLE, consisting of: stainless steel trocar, cannula 17 B.W.G. and stilette, glass connection, nickel plated mount and stopcock, each



L2256



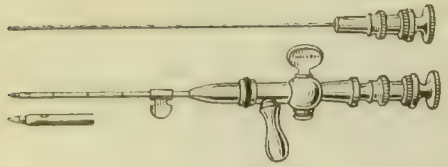
L2258

L2256 LILLINGSTON'S PNEUMOTHORAX NEEDLE, stainless steel, solid end, lateral hole, 18 B.W.G., with stilette and nickel plated stopcock .. each

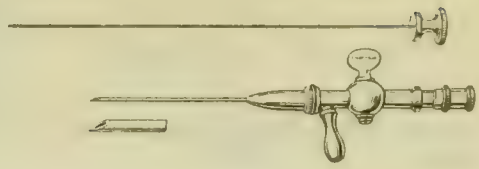
L2257 Spare Needles for above, screw-on .. .. each

L2258 MORLAND'S PNEUMOTHORAX NEEDLE, refill, stainless steel, solid end, lateral slot, 18 B.W.G., with stilette and nickel plated flanged mount .. each

NOTE.—B.W.G.=British Wire Gauge.



L2259



L2262

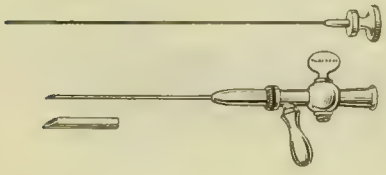
Cat. No.

L2259 RIVIÈRE'S PNEUMOTHORAX NEEDLE, initial, consisting of: stainless steel trocar, cannula with lateral hole, 18 B.W.G., two stilettes (fitted with stuffing boxes) and nickel plated stopcock .. .. each

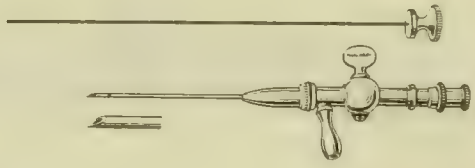
L2260 Ditto .. Refill Needle, consisting of: stainless steel needle and stilette fitted with stuffing box .. .. each

L2261 Spare Needles for above, screw-on .. .. each

L2262 SAUGMANN'S PNEUMOTHORAX NEEDLE, initial, stainless steel, 18 B.W.G., with stilette (fitted with stuffing box) and nickel plated stopcock .. each



L2263



L2265

L2263 SAUGMANN'S PNEUMOTHORAX NEEDLE, refill, stainless steel, 18 B.W.G., with stilette and nickel plated stopcock .. .. each

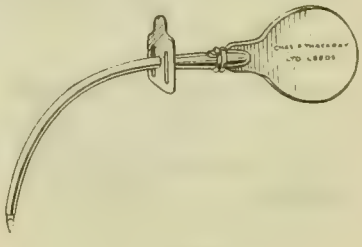
L2264 Spare Needles, screw-on, for L2262 and L2263 .. .. .. each

L2265 LEGGAT'S PNEUMOPERITONEUM NEEDLE, stainless steel, 18 B.W.G., terminal and lateral holes, with stilette (fitted with stuffing box) and nickel plated stopcock .. .. each

L2266 Spare Needles for above, screw-on .. .. each



L2267

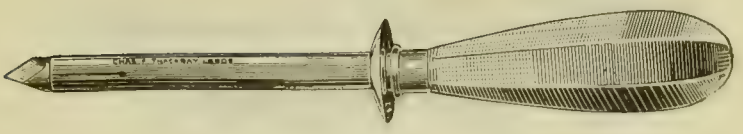


L2268

L2267 CHANDLER'S LIPIODOL TROCAR, stainless steel, with silver plated cannula, 14 B.W.G., Record fitting, serrated mount .. .. each

L2268 MARSHALL'S LIPIODOL TROCAR, stainless steel, with silver plated cannula, bayonet fitting .. .. each

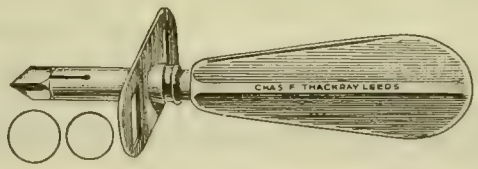
NOTE.—B.W.G.=British Wire Gauge.



L2269

Cat. No.

L2269 NELSON'S EMPYEMA TROCAR, stainless steel, with chromium plated cannula and handle, three sizes : 22, 26 and 32 French Catheter Gauge .. each



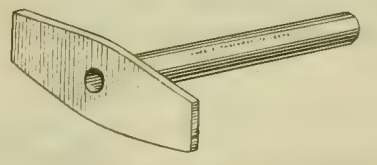
L2270

L2270 REYNOLD'S EMPYEMA TROCAR, stainless steel, with silver cannula and chromium plated handle, two sizes : large and small .. .. each

L2271 RUBBER TUBING for above, two sizes .. .. .. per yard

L2272 INTRODUCING STILETTE for above tubing, stainless steel .. each

L2273 RUBBER STRAPS, fitted with stud fasteners to retain shield of cannula.. each



L2274

L2274 EMPYEMA TUBE, rubber, sizes : 18, 21, 24, 27, 30, 33, 36, 39 and 42 French Catheter Gauge .. .. each

NOTE.—French Catheter Gauge: page U194.

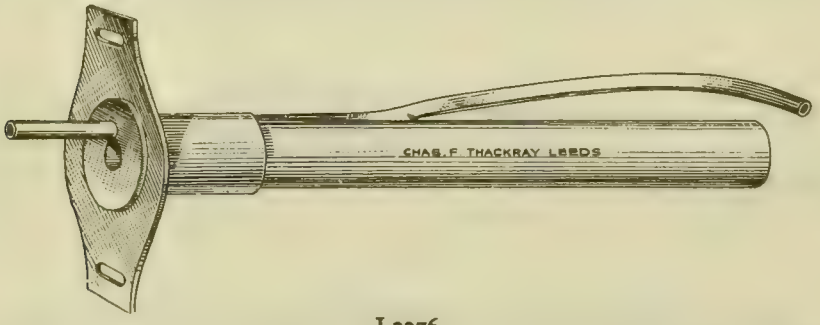
**Not illustrated*



L2275

Cat. No.

L2275 EMPYEMA TUBE, rubber, sizes: 18, 24, 30, 36, 42 and 48 French Catheter Gauge.. .. .. each



L2276

L.2276 TUDOR EDWARDS' EMPYEMA TUBE, rubber, with sliding flange, sizes: 42, 45, 48 and 51 French Catheter Gauge .. .. each



L2277

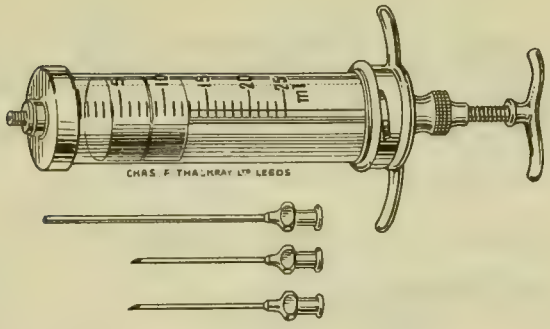
L2277 MALECOT'S DRAINAGE CATHETER, self-retaining, rubber, two-winged tip, sizes: 20, 22, 24, 26, 28 and 30 French Catheter Gauge .. .. each



L2278

L2278 INTRODUCER for Malecot's and Pezzer's Catheters, stainless steel, two sizes large and small .. .. each

NOTE.—French Catheter Gauge: page U194.



L2279

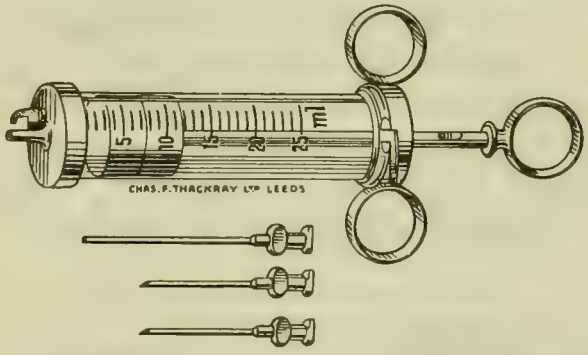
Cat. No.

L2279 BURRELL'S LIPIODOL SYRINGE, consisting of: 25 ml. syringe with screw fitting nozzle; two stainless steel needles, 18 B.W.G. and stainless steel filling cannula, in polished mahogany case .. .. complete

L2280 Ditto .. in chromium plated case .. .. complete

L2281 Spare Needles for above, 18 B.W.G. .. .. each

L2282 Spare Filling Cannulæ for above .. .. each



L2283

L2283 ROBERTS' LIPIODOL SYRINGE, consisting of: 25 ml. syringe with Labat fitting nozzle; two stainless steel needles, 15 B.W.G. and stainless steel filling cannula, in polished mahogany case .. .. complete

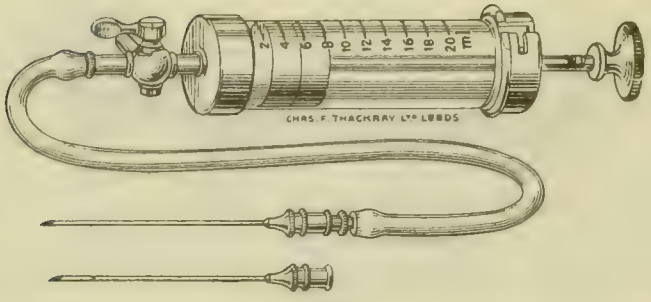
L2284 Ditto .. in chromium plated case .. .. complete

L2285 Spare Needles for above, 15 B.W.G. .. .. each

L2286 Spare Filling Cannulæ for above .. .. each

NOTE.—B.W.G.=British Wire Gauge.

Roberts' Suction Pump: see catalogue section of Electro-Surgical Apparatus.

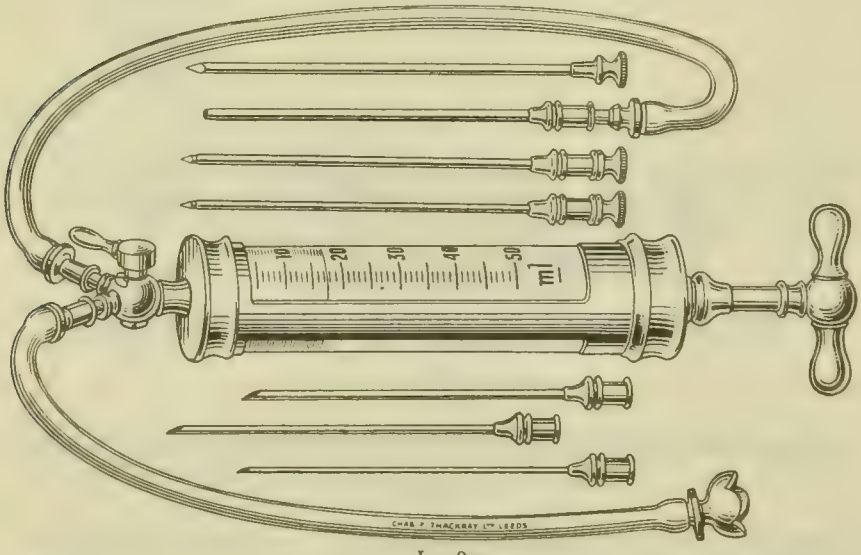


L2287

Cat. No.

L2287 BARTLETT'S ASPIRATOR, consisting of: 20 ml. syringe with fixed two-way stopcock; two stainless steel needles, 16 B.W.G.; rubber tubing and metal mounts, in polished mahogany case .. .. complete

L2288 Ditto .. in metal case .. .. complete

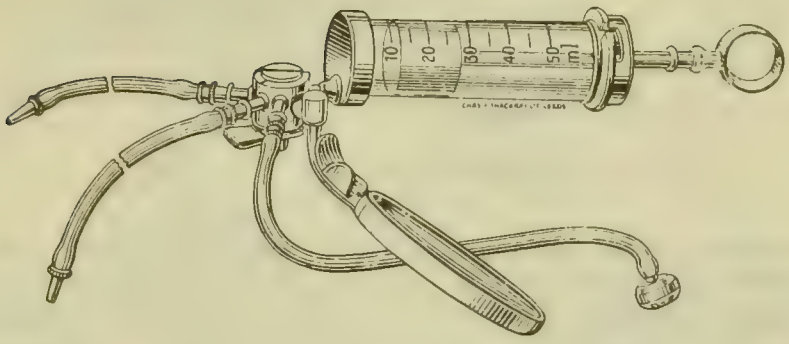


L2289

L2289 DIEULAFOY'S ASPIRATOR, consisting of: 50 ml. syringe with detachable glass barrel and fitted with two-way stopcock; three stainless steel trocars: 9, 11 and 13 B.W.G.; three chromium plated cannulæ; three stainless steel needles: 13, 15 and 17 B.W.G.; rubber tubing, metal connections and sinker, in polished mahogany case .. .. complete

L2290 Ditto .. in chromium plated case .. .. complete

NOTE.—B.W.G.=British Wire Gauge.



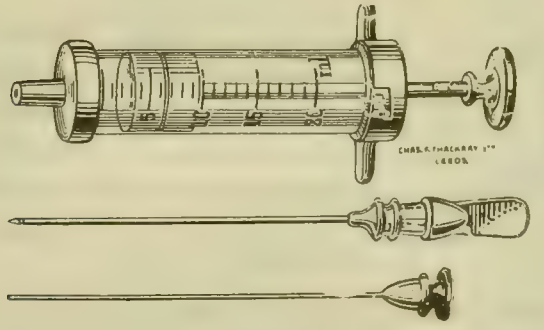
L2291

Cat. No.

L2291 DIRECT-FLOW ASPIRATOR, consisting of: 50 ml. syringe; chromium plated three-way connection on handle; three lengths of rubber tubing with †Luer fitting metal mounts and metal sinker; three stainless steel needles: 13, 15 and 17 B.W.G. by 3½ in. long, in nickel plated case .. complete

L2292 Ditto .. but without needles or case .. .. each

†Record or S.I.M.A. fitting mounts, if desired.

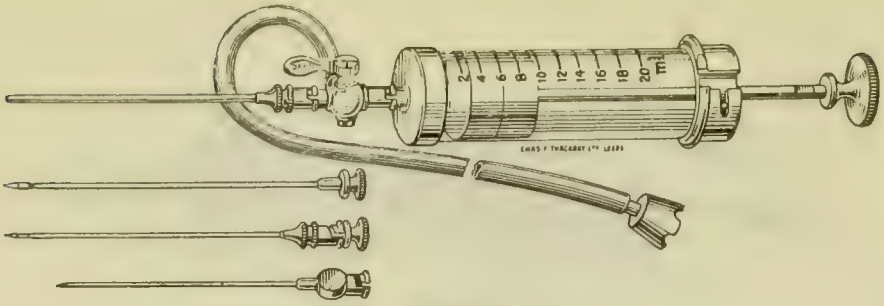


L2293

L2293 GAUVAIN'S ASPIRATOR, consisting of: 20 ml. syringe with large bore nozzle; stainless steel trocar 15 B.W.G.; stainless steel pilot and plated cannula, in polished mahogany case .. .. complete

L2294 Ditto .. in metal case .. .. complete

NOTE.—B.W.G.=British Wire Gauge.

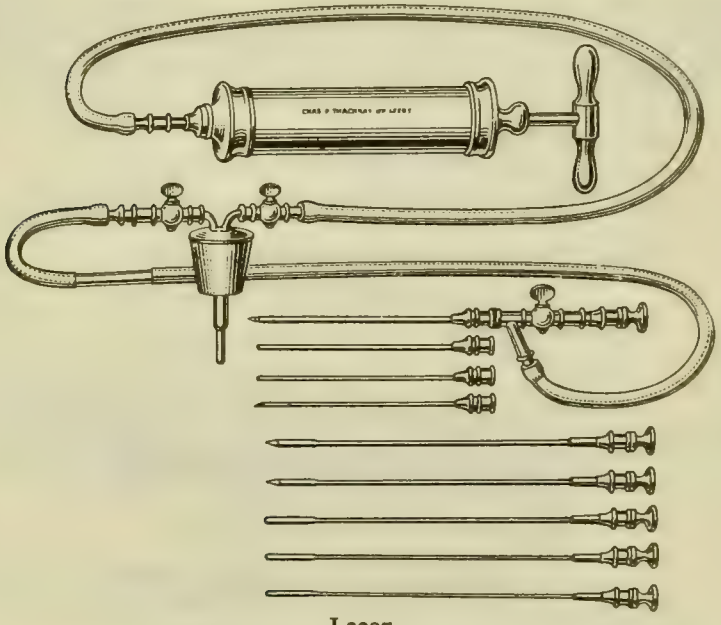


L2295

Cat. No.

L2295 MARTIN'S ASPIRATOR, consisting of: 20 ml. syringe with detachable two-way stopcock; two stainless steel trocars: 11 and 13 B.W.G.; plated cannulæ; one stainless steel exploring needle 16 B.W.G.; rubber tubing and metal sinker, in polished mahogany case .. .. complete

L2296 Ditto .. in metal case .. .. complete



L2297

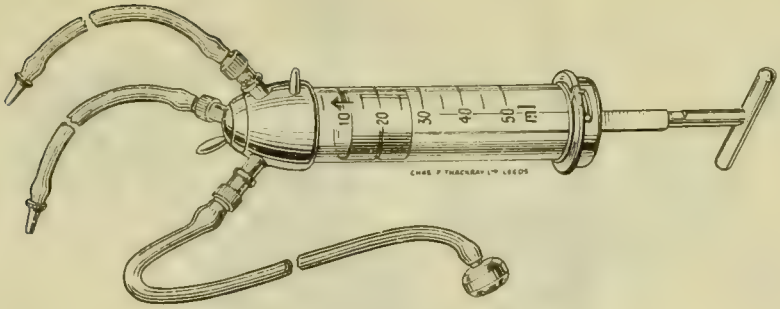
L2297 POTAIN'S ASPIRATOR, consisting of: chromium plated all-metal pump; three stainless steel trocars: 9, 11 and 13 B.W.G.; three chromium cannulæ; three stainless steel blunt pilots; one stainless steel needle 17 B.W.G.; chromium plated two-way stopcock; chromium plated bottle mount, fitted with stopcocks and rubber bung; rubber tubing, mounts and connections, in polished mahogany case (*without bottle*) .. .. complete

L2298 Ditto .. in chromium plated case .. .. complete

*L2299 Glass Bottle, 30 oz., graduated, for above .. .. each

NOTE.—B.W.G.=British Wire Gauge.

**Not illustrated*



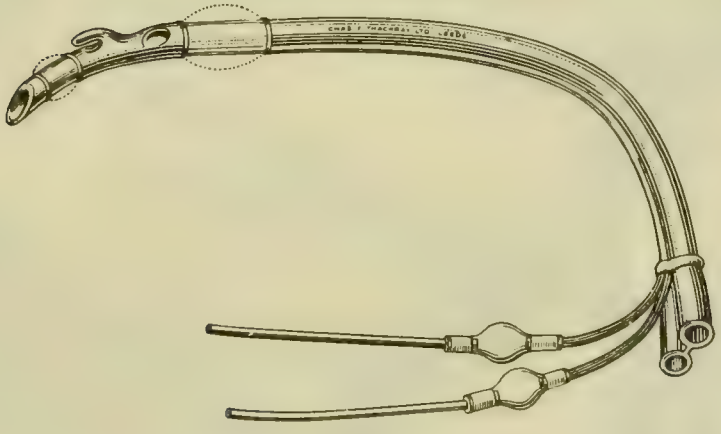
L2300

Cat. No.

L2300 ROTANDA ASPIRATOR, consisting of: 50 ml. syringe with chromium plated three-way nozzle; three lengths of rubber tubing with †*Luer* fitting metal mounts and metal sinker; three stainless steel needles: 13, 15 and 17 B.W.G. by 3½ in. long, in chromium plated case .. .. complete

L2301 Ditto .. but without needles or case .. .. each

†*Record or S.I.M.A. fitting mounts, if desired.*



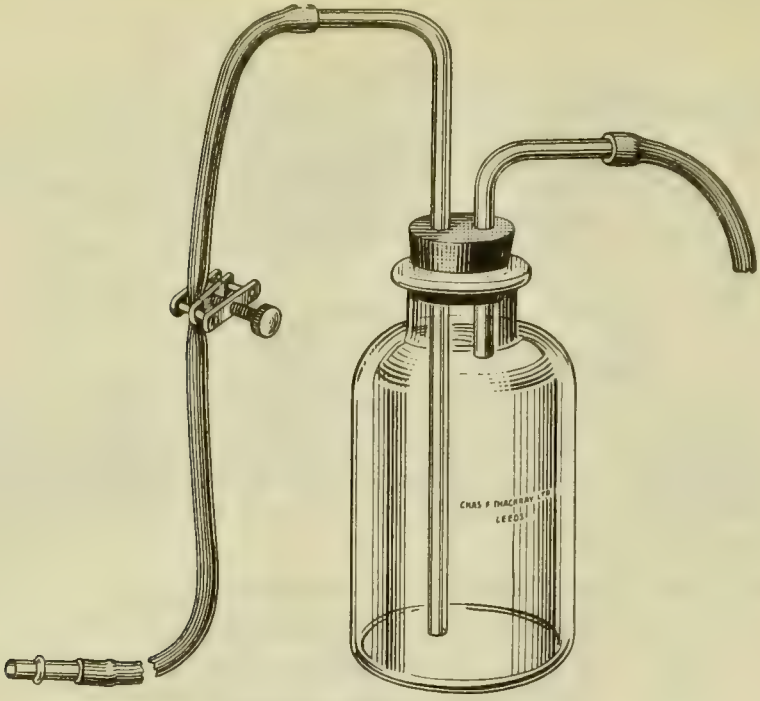
L2302

L2302 CARLENS' DOUBLE LUMEN CATHETER, rubber, for bronchospirometry and one lung anæsthesia; for men: 39 French Catheter Gauge, external diameter, each

L2303 Ditto .. for women: 35 French Catheter Gauge, external diameter .. each

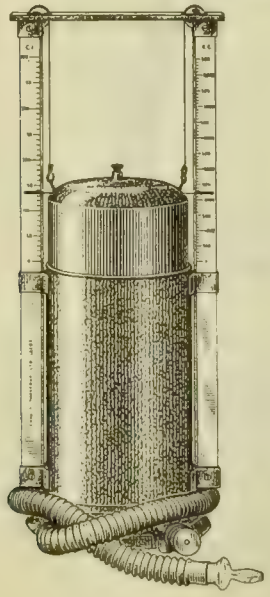
Vide The Journal of Thoracic Surgery, St. Louis, Vol. 20, *No.* 1, *pages* 151–157, *July* 1950, *and Vol.* 23, *No.* 4, *pages* 419–428, *April* 1952. *By V. O. Björk, E. Carlens and C. Crafoord.*

French Catheter Gauge: page U194.



L2304

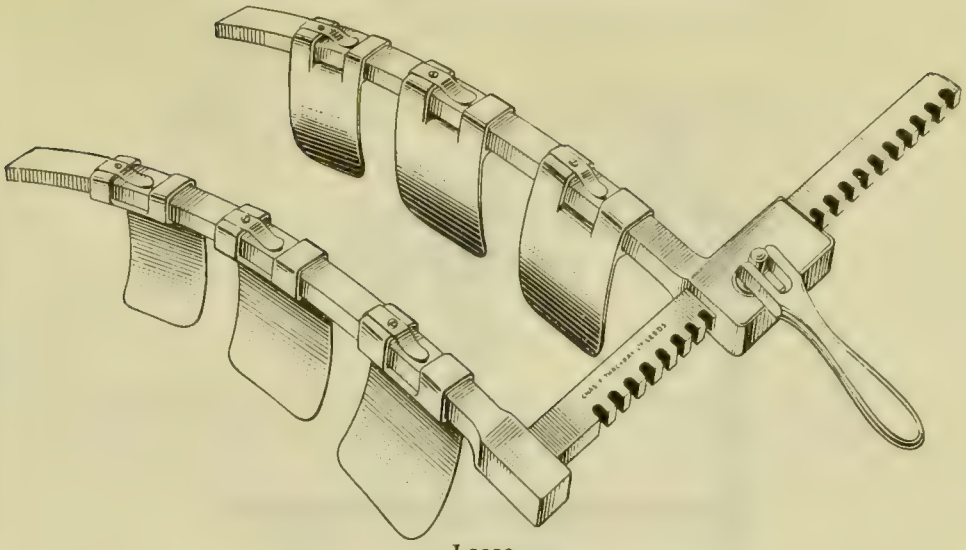
Cat. No.		
L2304	TUDOR EDWARDS' EMPYEMA DRAINAGE APPARATUS, consisting of: Glass bottle, two glass angle pieces, rubber bung, rubber tubing and tubing clip,	complete
L2305	Spare Glass Bottles	each
L2306	Spare Glass Long Angle pieces	each
L2307	Spare Glass Short Angle pieces	each



L2308

L2308 HUTCHINSON'S SPIROMETER, with corrugated rubber tubing and glass mouthpiece .. .. .. complete

A very strongly made Spirometer of the gasometer type for measurement of expiration and lung capacity in both cubic inches and cubic centimetres. Suitable for hospital or consulting room use.

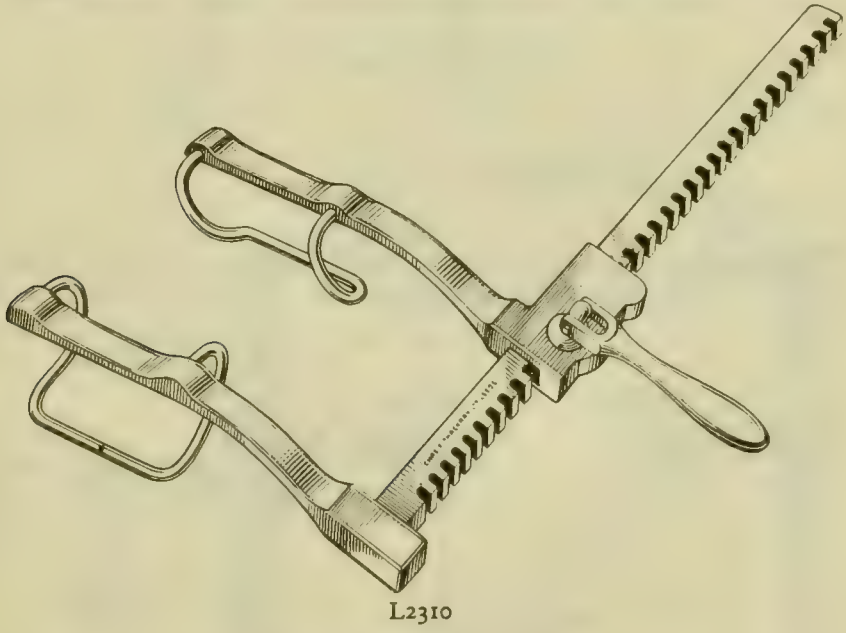


L2309

Cat. No.

L2309 BUCKLEY'S modified FINOCHIETTO'S RIB-SPREADER, complete with six interchangeable blades: two each small, medium and large, stainless steel, each

This instrument incorporates the strength and rigidity of the original Finochietto model and has the additional advantages of: curved arms, to follow the contour of the chest, and interchangeable blades, adjustable along the arms and retained in position by spring pressure.

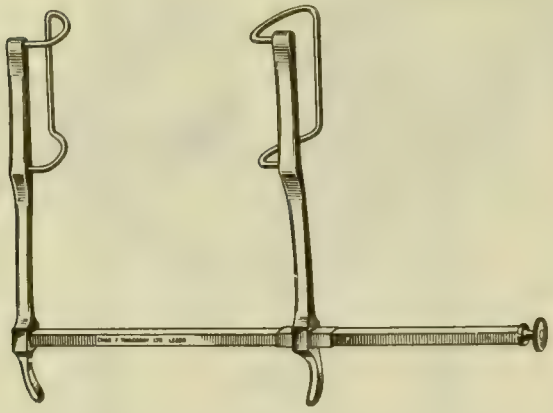


L2310

L2310 RONALD EDWARDS' modified FINOCHIETTO'S RIB-SPREADER, stainless steel .. .. each

L2310A Ditto .. small size for children .. .. each

Mr. Ronald Edwards has, in his modification of the Finochietto model, embodied the following salient features: Lighter in weight; Anatomically curved arms; Curved, fenestrated blades.



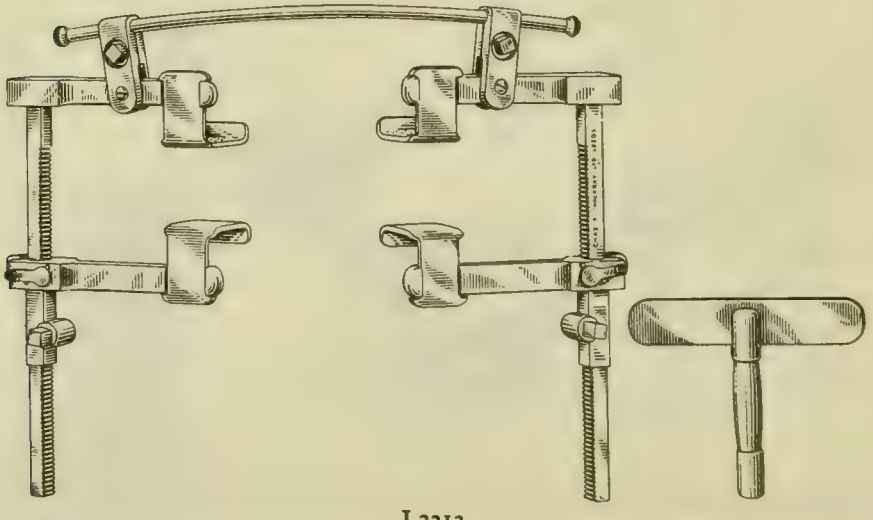
L2311

Cat. No.

L2311 RONALD EDWARDS' LIGHTWEIGHT RIB SPREADER, stainless steel, each

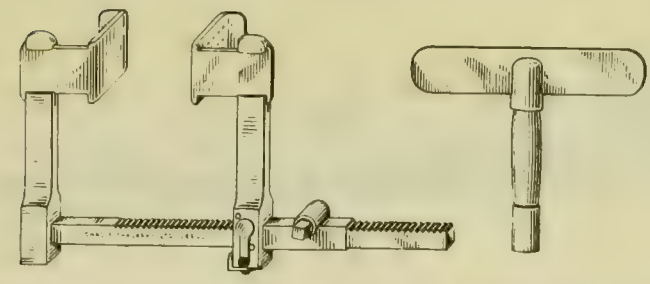
L2312 Ditto .. Children's size .. .. each

L2312A Ditto .. Infants' size, as used at Royal Liverpool Children's Hospital, each



L2313

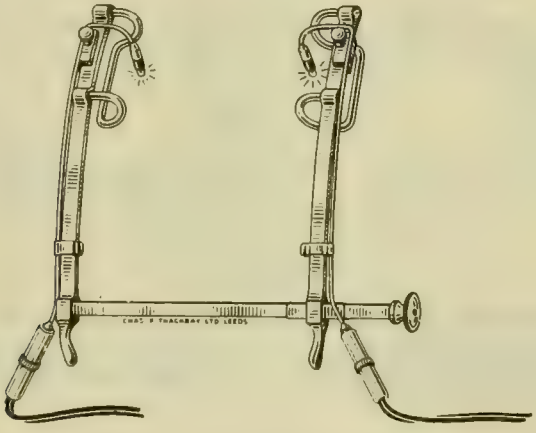
L2313 TUDOR EDWARDS' DOUBLE RIB SPREADER, with twelve interchangeable blades (four each sizes : 1 in., 2 in. and 3 in. long) complete with two keys, stainless steel .. .. each



L2314

Cat. No.

L2314 TUDOR EDWARDS' RIB SPREADER, with six interchangeable blades (two each sizes: 1 in., 2 in., and 3 in. long) complete with key, stainless steel, each

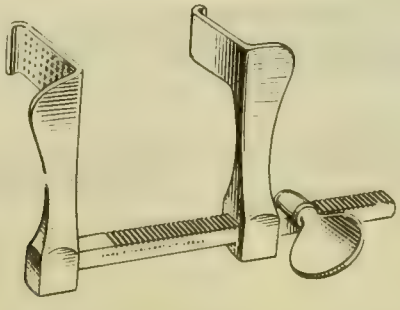


L2315

L2315 ROBERTS-NELSON'S RIB SPREADER, stainless steel, curved arms, with two light carriers, chromium plated; four lamps and set of twin rubber covered cables, each

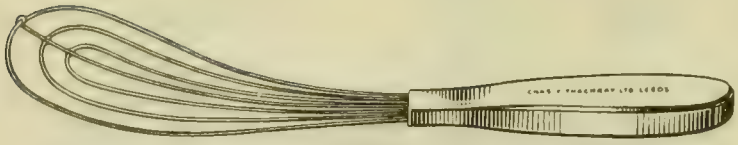
L2316 Ditto .. Retractor only, without light carriers .. .. .. each

L2317 Spare Lamps for L2315, 3·5 volts. .. .. each



L2318

L2318 TUFFIER'S RIB SPREADER, stainless steel .. .. .. each

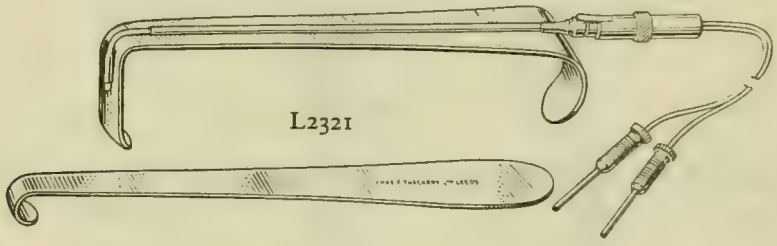


L2319

Cat. No.

L2319 ALLISON'S LUNG RETRACTOR, flexible stainless steel wire, chromium plated handle .. .. each

L2320 Ditto .. children's size .. .. each



L2321

L2322

L2321 NELSON'S PHRENIC RETRACTOR, stainless steel with light carrier, two lamps and rubber covered cables .. .. each

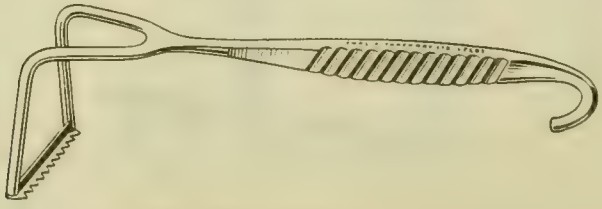
L2322 Ditto .. small curved, without light carrier or cables, stainless steel .. each

L2323 Spare Lamps for L2321, 3·5 volts .. .. each



L2324

L2324 NELSON'S NERVE HOOK, stainless steel, chromium plated handle, each



L2325

L2325 MORRISTON DAVIES' SCAPULA RETRACTOR, stainless steel .. each

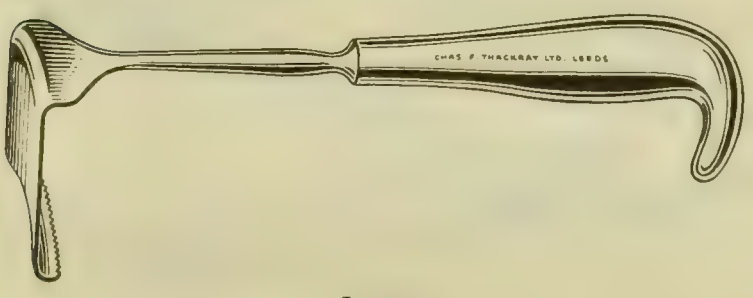


L2326

Cat. No.

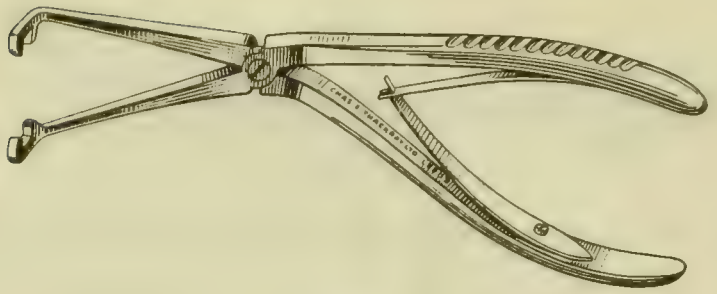
L2326 RONALD EDWARDS' AUTOMATIC SCAPULA RETRACTOR, consisting of: chromium plated table clamp, adjustable upright, pawl and chain with hooks for scapula .. .. each

The use of this instrument virtually dispenses with the need for a second assistant at thoracoplasty. It is a modification of Overholt's original model.



L2327

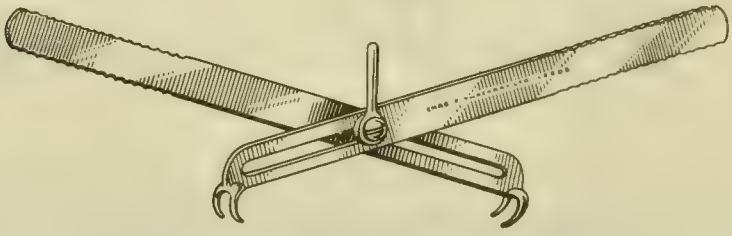
L2327 TUDOR EDWARDS' SCAPULA RETRACTOR, stainless steel, chromium plated handle .. .. each



L2328

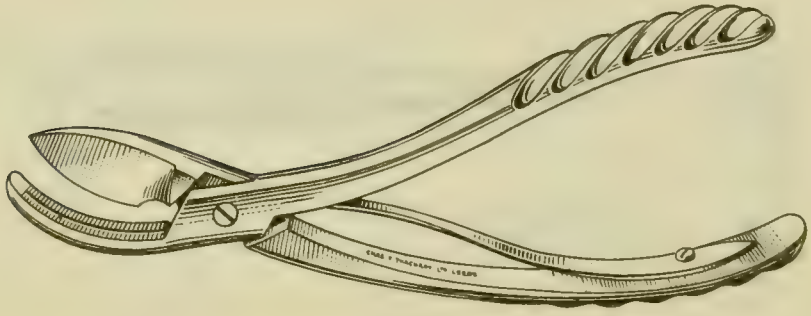
Cat. No.

L2328 MORRISTON DAVIES' RIB APPROXIMATOR, curved, stainless steel, each



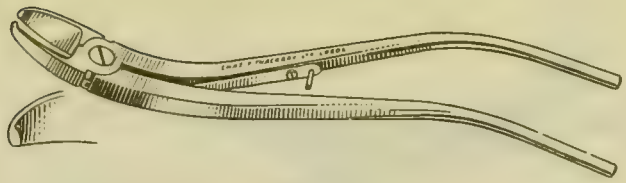
L2329

L2329 ROBERTS-NELSON'S RIB APPROXIMATOR, stainless steel .. each



L2330

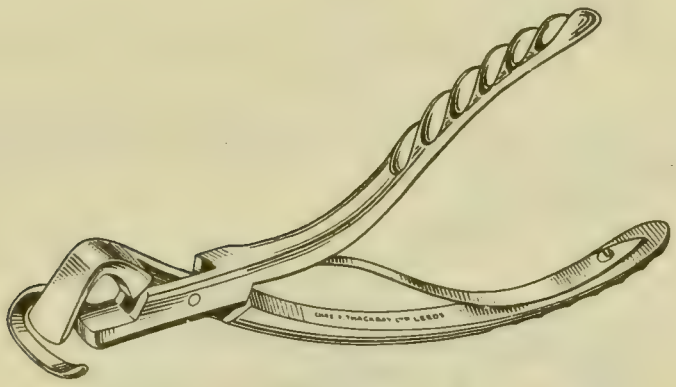
L2330 RIB SHEARS, with serrated and grooved blade, 8½ in., stainless steel .. each



L2331

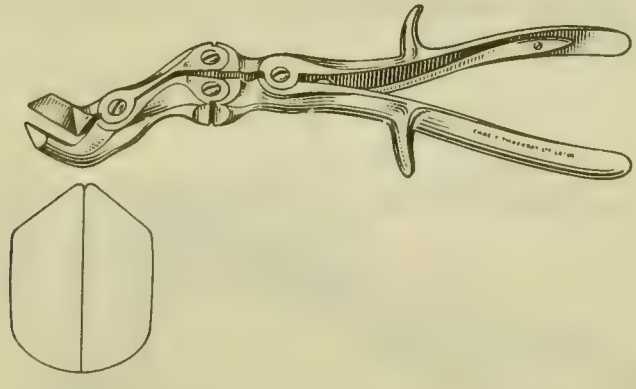
Cat. No.

L2331 BETHUNE'S RIB SHEARS, with probe-pointed blades, 13¾ in., stainless steel, each



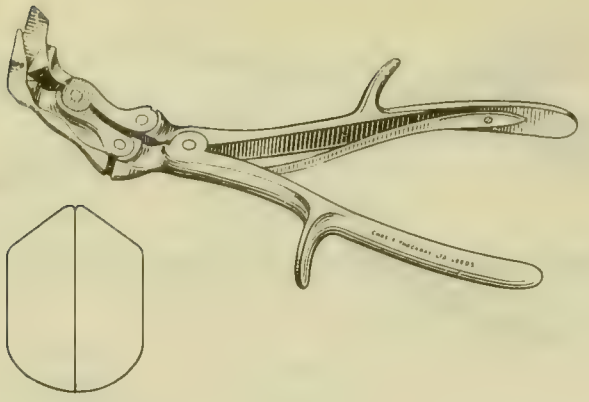
L2332

L2332 DOYEN'S RIB SHEARS, take-off joint, 7¾ in., stainless steel .. .. each



L2333

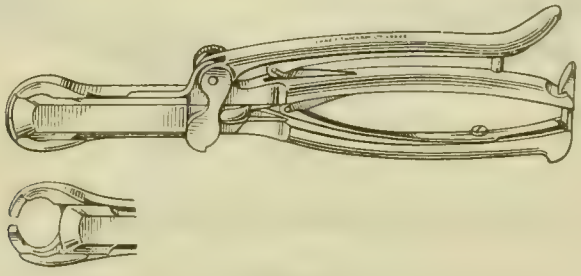
L2333 TUDOR EDWARDS' RIB SHEARS, for the posterior ends, multiple-action joints, 10½ in., stainless steel .. .. each



L2334

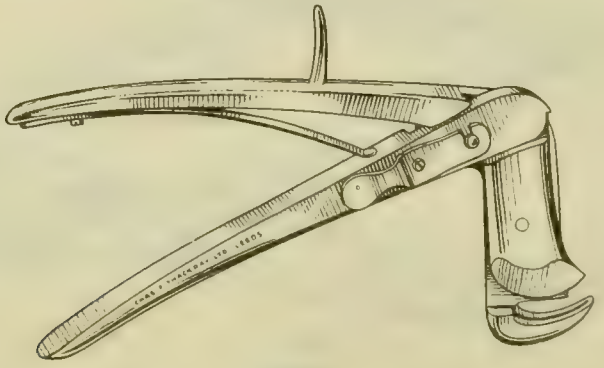
Cat. No.

L2334 TUDOR EDWARDS' RIB SHEARS, for the anterior ends, multiple-action joints, 9½ in., stainless steel .. .. each



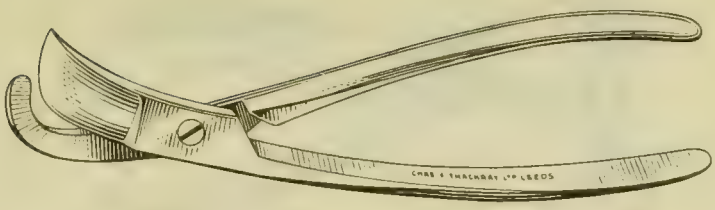
L2335

L2335 TUDOR EDWARDS' modified VEHMEHREN'S RIB SHEARS (Costotome), 9¼ in., stainless steel .. .. each



L2336

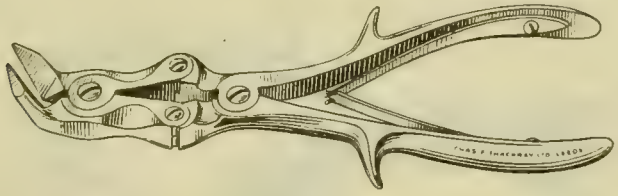
L2336 EXNER'S RIB SHEARS, 8½ in., stainless steel .. .. .. each



L2337

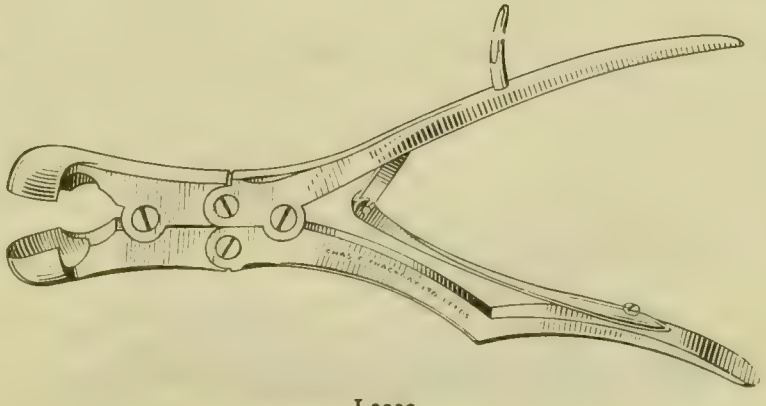
Cat. No.

L2337 POLLOCK'S RIB SHEARS, 8 in., stainless steel .. .. .. each



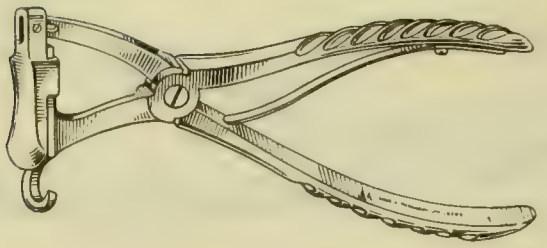
L2338

L2338 PRICE THOMAS' RIB SHEARS, multiple-action joints, 10¼ in., stainless steel, each



L2339

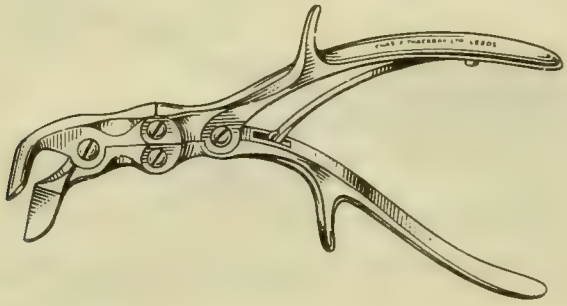
L2339 SAUERBRUCH'S RIB RONGEURS, with round jaws, multiple-action joints, 12¼ in., stainless steel .. .. each



L2340

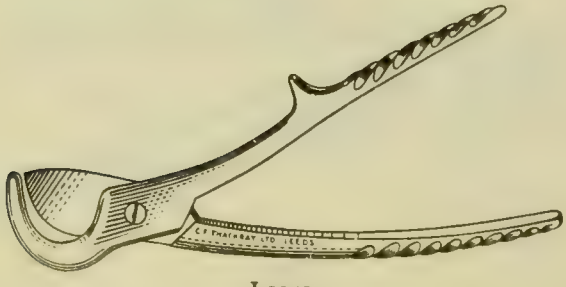
Cat. No.

L2340 SCHŒMAKER'S RIB SHEARS, 8¾ in., stainless steel .. .. each



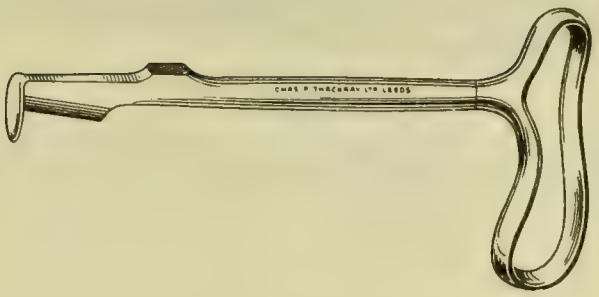
L2341

L2341 SEMB'S RIB SHEARS, for the anterior ends, multiple-action joints, 9¼ in., stainless steel .. .. each



L2342

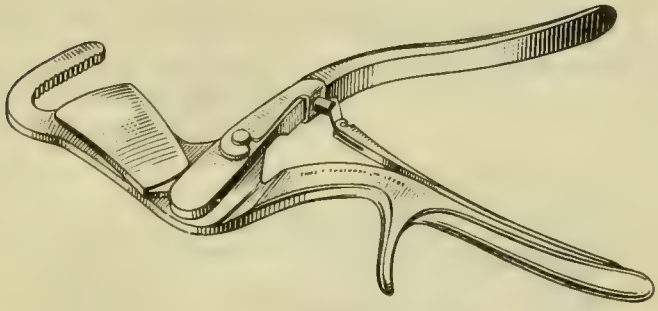
L2342 WATERHOUSE'S RIB SHEARS, 9½ in., stainless steel .. .. each



L2343

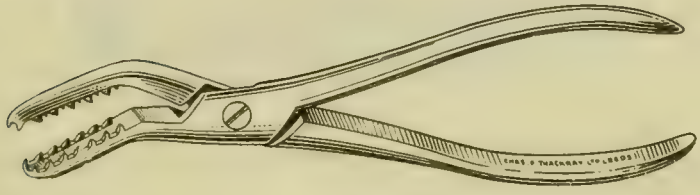
Cat. No.

L2343 LEBSCHE'S STERNUM CHISEL, stainless steel, chromium plated handle, each



L2344

L2344 LEBSCHE'S STERNUM SHEARS, stainless steel .. .. each



L2345

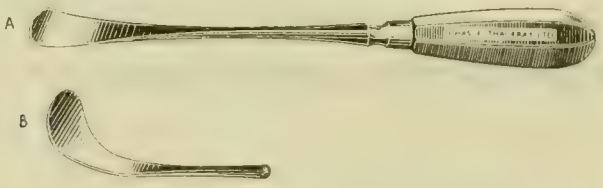
L2345 SEMB'S RIB HOLDING FORCEPS, screw joint, 7½ in., stainless steel, each



L2346

Cat. No.

L2346 ALEXANDER'S RIB RASPATORY AND PERIOSTEAL ELEVATOR, stainless steel .. .. each



L2347–8

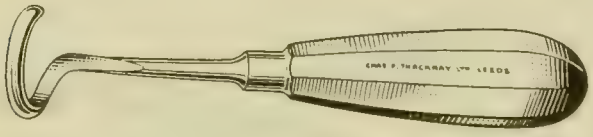
L2347 MORRISTON DAVIES' RIB RASPATORY, long handle, slightly curved (A), stainless steel, chromium plated handle .. .. each

L2348 Ditto .. deeply curved, (B) for first rib .. .. each



L2349

L2349 MORRISTON DAVIES' RIB RASPATORY, double-ended, stainless steel, each



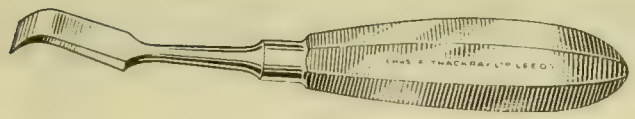
L2351

L2350 DOYEN'S RIB RASPATORY, adults' size, curved-to-left for right hand use, stainless steel, chromium plated handle .. .. each

L2351 Ditto .. curved-to-right for left hand use .. .. .. each

L2352 Ditto .. children's size, curved-to-left .. .. each

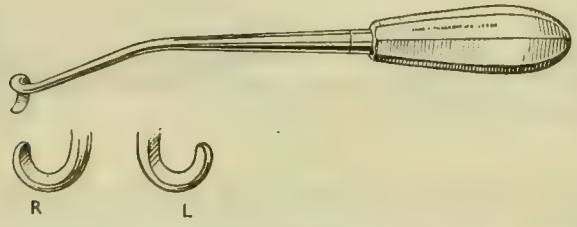
L2353 Ditto .. curved-to-right .. .. each



L2354

Cat. No.

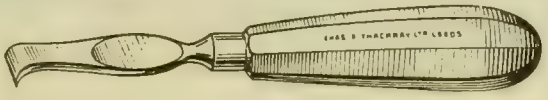
L2354 TUDOR EDWARDS' RIB RASPATORY, stainless steel, chromium plated handle .. .. each



L2355–6

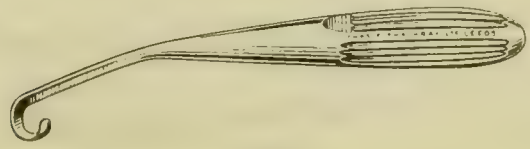
L2355 TUDOR EDWARDS' RIB HOOK, for first rib, curved-to-left for right hand use, stainless steel, chromium plated handle .. .. each

L2356 Ditto .. curved-to-right for left hand use .. .. .. each



L2357

L2357 NELSON'S RIB RASPATORY, stainless steel, chromium plated handle, each



L2358

L2358 O'BRIEN'S RIB RASPATORY, curved-to-left for right hand use, stainless steel, chromium plated handle .. .. each

L2359 Ditto .. curved-to-right for left hand use .. .. .. each



L2360

Cat. No.

L2360 PRICE THOMAS' RIB RASPATORY, long slender blade, stainless steel, chromium plated handle .. .. each

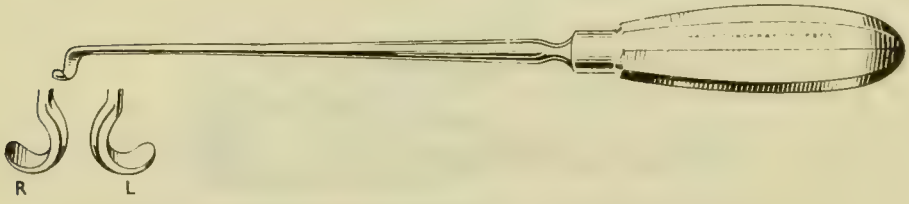
This instrument is used for stripping the lower border of the ribs and the under surfaces of the first and second ribs.



L2361

L2361 PRICE THOMAS' RIB RASPATORY, broad blade, stainless steel, chromium plated handle .. .. each

For general purposes, and if necessary the whole procedure of elevating the periosteum can be carried out with this instrument.



L2362–3

L2362 PRICE THOMAS' RIB HOOK, curved-to-left for right hand use, stainless steel, chromium plated handle .. .. each

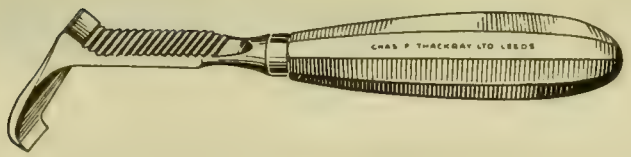
L2363 Ditto .. curved-to-right for left hand use .. .. .. each

This instrument is used for stripping the anterior end of the outer margin of the first rib.



L2364

L2364 ROBERTS-NELSON'S RIB RASPATORY, stainless steel, chromium plated handle .. .. each



L2365

Cat. No.

L2365 ROBERTS' RIB RASPATORY, for first rib, stainless steel, chromium plated handle .. .. each

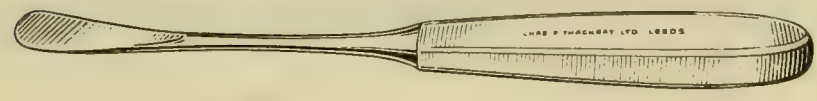


L2366

L2366 HOLMES SELLORS' RIB RASPATORY, curved-to-left for right hand use, stainless steel, chromium plated heavy handle .. .. .. each

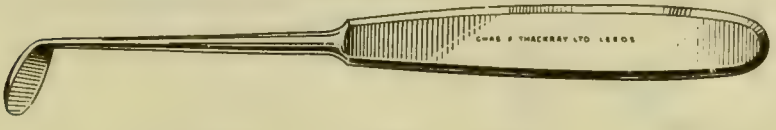
L2367 Ditto .. curved-to-right for left hand use .. .. .. each

This instrument has a long shaft for working at a depth and the curve at end is smaller than that of Doyen's instrument.



L2368

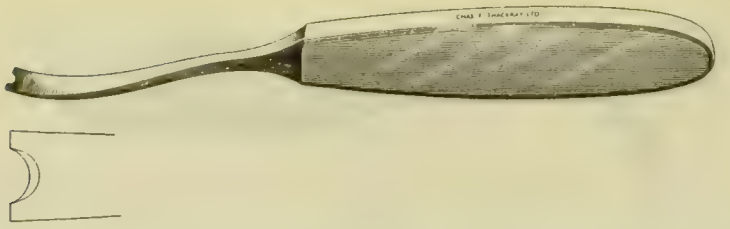
L2368 SEMB'S RIB RASPATORY, spatulate blade with sharp edge, stainless steel, chromium plated handle .. .. each



L2369

L2369 SEMB'S RIB RASPATORY, with oval blade, stainless steel, chromium plated handle .. .. each

For rib surface.

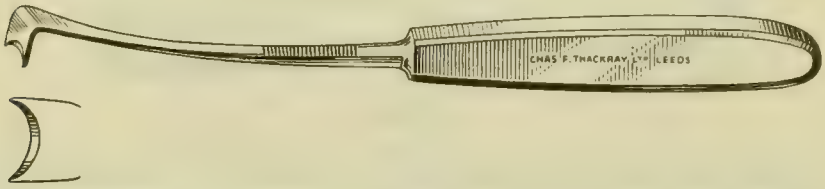


L2370

Cat. No.

L2370 SEMB'S RIB RASPATORY, chisel-edged, slightly curved blade, stainless steel, chromium plated handle .. .. each

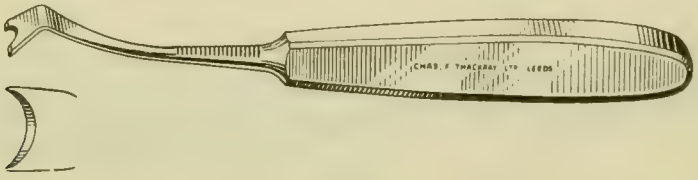
For separating the costo-transverse articulation.



L2371

L2371 SEMB'S RIB RASPATORY, chisel-edged, with long shaft, stainless steel, chromium plated handle .. .. each

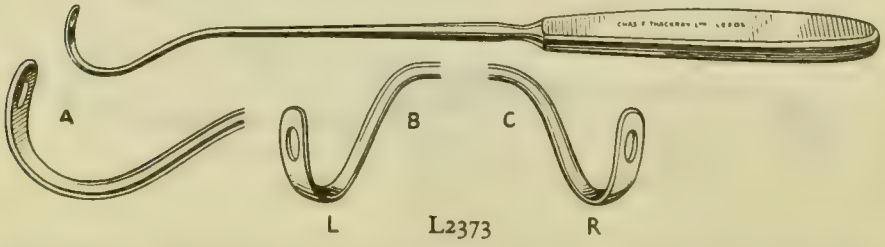
For rib edge.



L2372

L2372 SEMB'S RIB RASPATORY, chisel-edged, with short shaft, stainless steel, chromium plated handle .. .. each

For rib edge.



L2373 NELSON'S LIGATURE HOOK, three shapes: straight (A); curved-to-left for right hand use (B); curved-to-right for left hand use (C), stainless steel, chromium plated handle .. .. each



L2374

Cat. No.

L2374 LOBECTOMY SCISSORS, as used at The General Infirmary at Leeds ; curved-on-flat, 12 in., stainless steel .. .. each



L2375

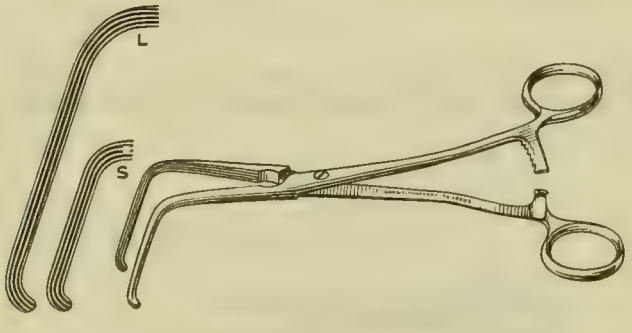
L2375 NELSON'S LOBECTOMY SCISSORS, curved-on-flat, 9 in., stainless steel, each

L2376 Ditto .. straight .. .. each



L2377

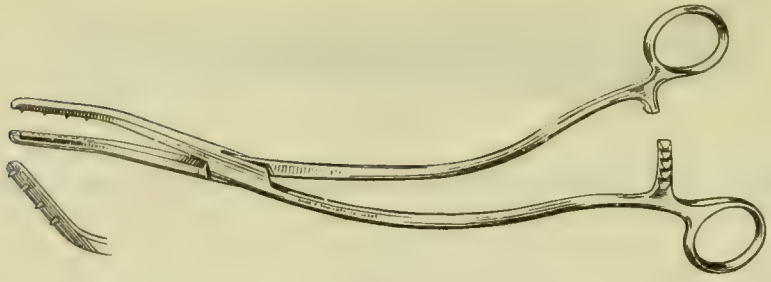
L2377 ROBERTS-NELSON'S LUNG TOURNIQUET, chromium plated, complete with cord .. .. each



L2378

L2378 BICKFORD'S BRONCHUS CLAMPS, screw joint, stainless steel, two sizes of jaws : small and large .. .. each

These clamps have been designed so as to occlude the bronchus temporarily during lung resection. They are especially light in their grip so that they will not damage the bronchial wall when applied. They are made in two sizes: one for lobar and segmental resection and one for pneumonectomy.



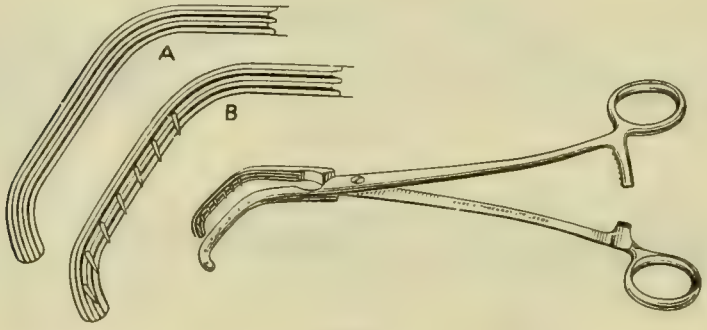
L2379–80

Cat. No.

L2379 BROCK'S BRONCHUS CLAMP, left, box joint, stainless steel .. each

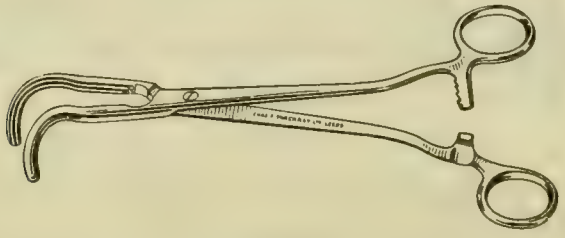
L2380 Ditto .. right .. .. each

These bronchus clamps are of a light design so that they will not crush or bruise the bronchus. Slipping is prevented by four pins. They are made with special curves that they can be applied on either the right or left side.



L2381

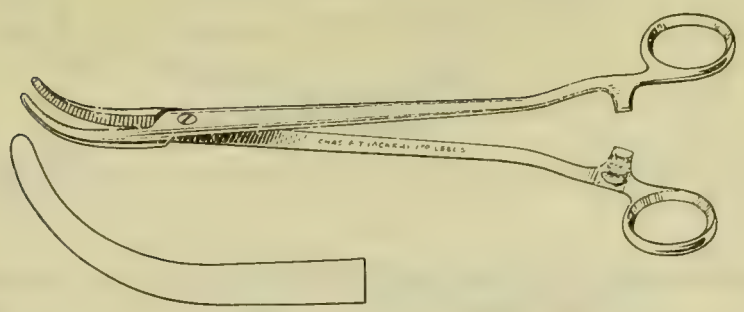
L2381 PRICE THOMAS' BRONCHUS CLAMP, screw joint, stainless steel, three patterns : (A) grooved jaws ; (B) spiked and grooved—left and right .. each



L2382–3

L2382 THOMPSON'S BRONCHUS CLAMP, left, screw joint, stainless steel, each

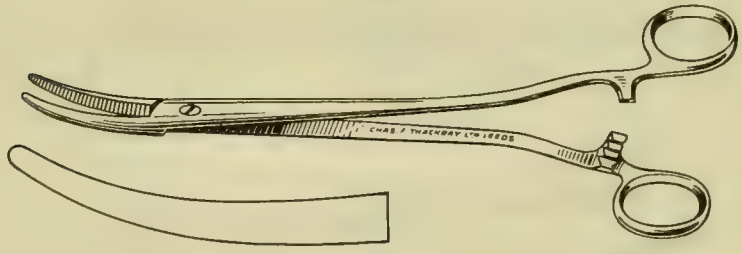
L2383 Ditto .. right .. .. each



L2384

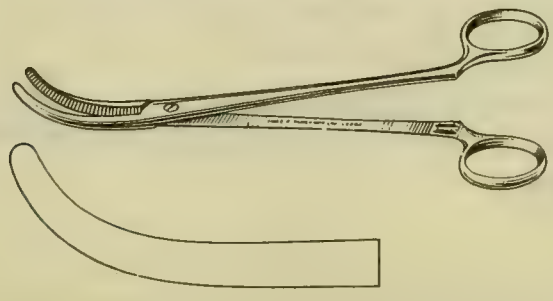
Cat. No.

L2384 LUNG ARTERY FORCEPS, as used at The General Infirmary at Leeds ; deep curved jaws, screw joint, 12 in., stainless steel .. .. .. each



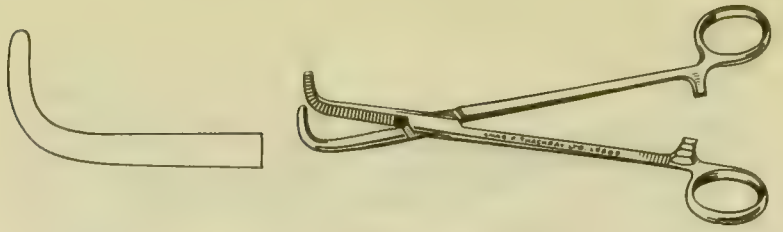
L2385

L2385 LUNG ARTERY FORCEPS, as used at The General Infirmary at Leeds ; shallow curved jaws, screw joint, 12 in., stainless steel .. .. .. each



L2386

L2386 TUDOR EDWARDS' LUNG ARTERY FORCEPS, screw joint, 9 in., stainless steel .. .. each



L2387

Cat. No.

L2387 O'SHAUGHNESSY'S LUNG ARTERY FORCEPS, box joint, 8 in., stainless steel .. .. each



L2388

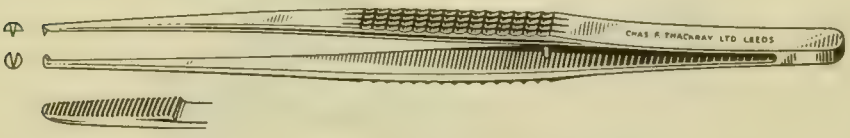
L2388 ROBERTS' LUNG ARTERY FORCEPS, screw joint, 9 in., stainless steel, each



L2389

L2389 DUDFIELD ROSE'S ARTERY FORCEPS, curved-on-flat, 10½ in., box joint, stainless steel .. .. each

Originally designed for sympathectomy, these forceps have been found useful in a variety of operations where long forceps with a light grip are required.

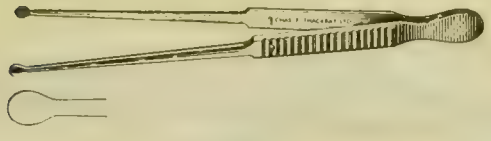


L2390–91

L2390 BICKFORD'S DISSECTING FORCEPS, with one into two teeth, 9 in., stainless steel .. .. each

L2391 Ditto .. non-toothed serrated jaws .. .. each

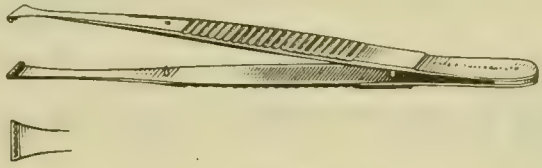
These forceps are long, yet light in grip, do not tire the hand and have ends which accurately approximate for picking up tissue and ligatures.



L2392

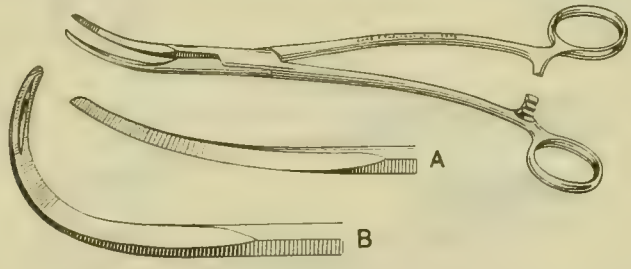
Cat. No.

L2392 MORRISTON DAVIES' DISSECTING FORCEPS, 8 in., stainless steel, each



L2393

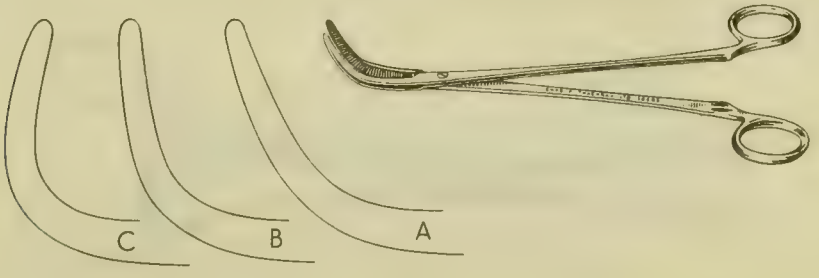
L2393 NELSON'S LUNG ADHESION FORCEPS, 9 in., stainless steel .. each



L2394-5

L2394 SEMB'S PNEUMONECTOMY FORCEPS, shallow curve (A), box joint, 9 in., stainless steel .. .. each

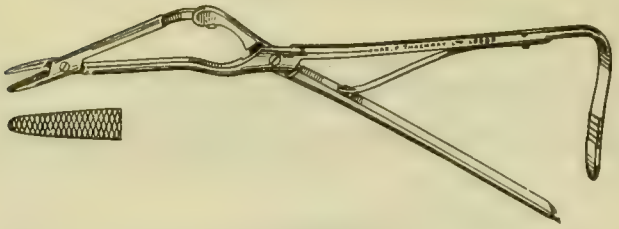
L2395 Ditto .. deep curve (B), with ligature holes in jaws .. .. each



L2396

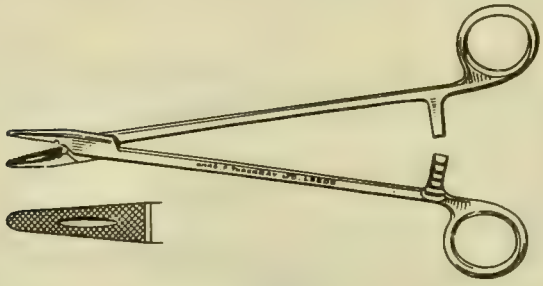
L2396 RONALD EDWARDS' HILUM DISSECTING FORCEPS, three curves: A, B and C, screw joint, 8 in., stainless steel .. .. .. each

These forceps are useful for various manipulations in the hilum, such as dissection, clamping bronchi and threading ligatures around large vessels.



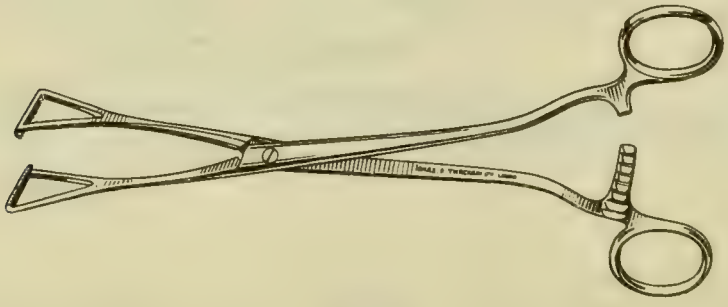
L2397

Cat. No.
L2397 HALSTED'S (or CUSHING'S) NEEDLE HOLDER, screw joint, 10 in., stainless steel .. .. each



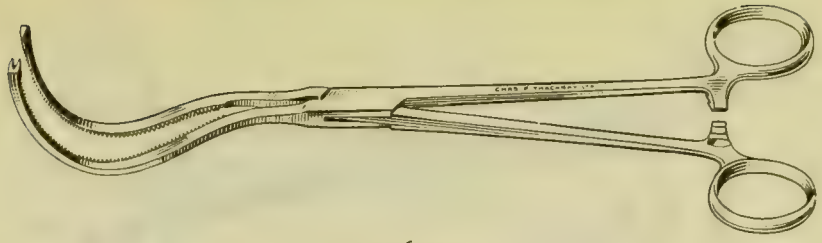
L2398

L2398 MAYO'S NEEDLE HOLDER, as used at The General Infirmary at Leeds ; with transverse needle groove on jaw, box joint, 9 in., stainless steel .. each
L2398A Ditto .. (MASSON'S) 10 in. long .. .. each



L2399

L2399 DUVAL'S LUNG FORCEPS, screw joint, 7½ in., 1 in. blades, stainless steel, each
L2400 Ditto .. ½ in. blades .. .. each

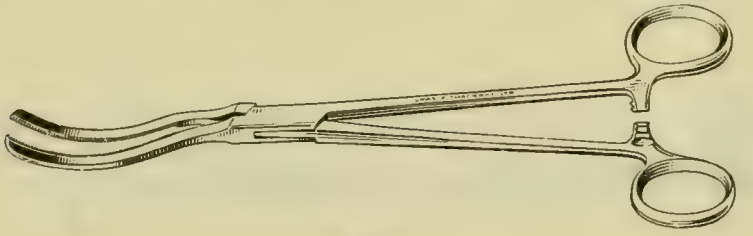


47–6077

Cat. No.

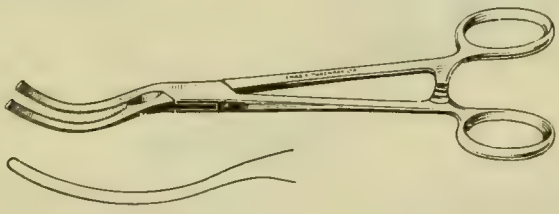
447–6077 POTT'S CLAMP, with deep spoon-shaped jaws and one into two teeth at end of jaws, box joint, 9 in., stainless steel.

447–6078 Ditto . . without one into two teeth at end of jaws.



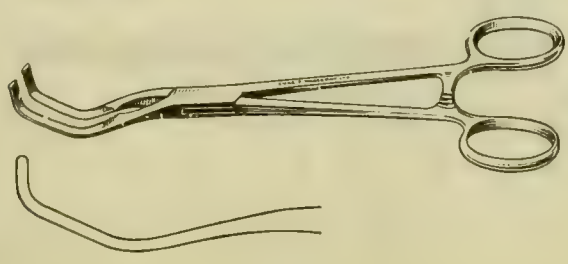
47–6079

447–6079 POTT'S CLAMP, with shallow spoon-shaped jaws, box joint, 8 in., stainless steel.



47–6080

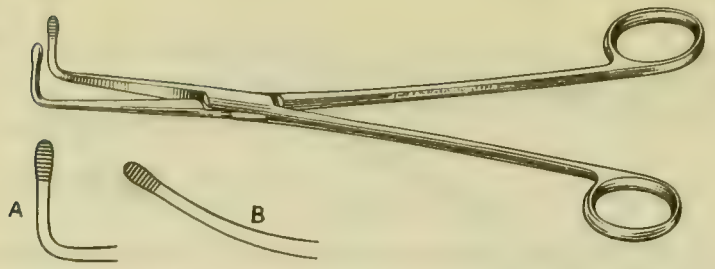
447–6080 POTT'S CLAMP for infants, with shallow spoon-shaped jaws, box joint, 6 in., stainless steel.



47–6081

447–6081 BARLOW'S modified POTT'S CLAMP for infants, box joint, 6 in., stainless steel.

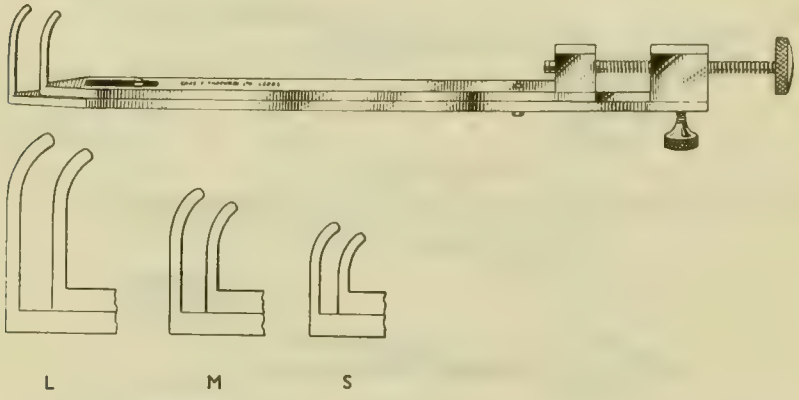
See page L451 for Straight Pott's Clamps.



L2414

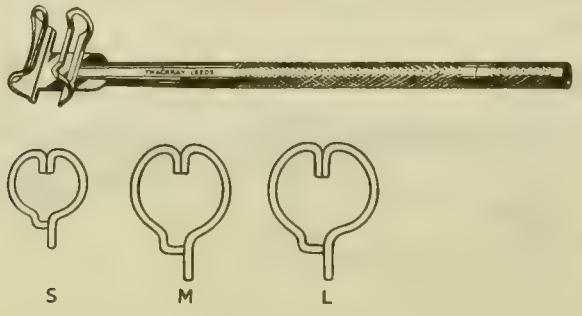
Cat. No.

L2414 DENIS BROWNE'S DUCTUS ARTERIOSUS DISSECTING FORCEPS, two angles of jaw: 90° (A) and 45° (B), box joint, stainless steel .. each



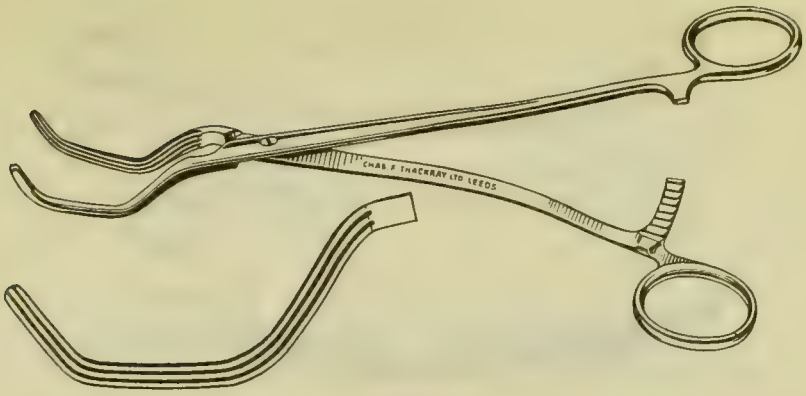
L2415

L2415 BLALOCK'S PULMONARY ARTERY CLAMP, stainless steel, three sizes: large, medium and small .. .. each



L2416

L2416 POTTS' AORTIC CLAMP, stainless steel, three sizes: small, medium and large .. .. each

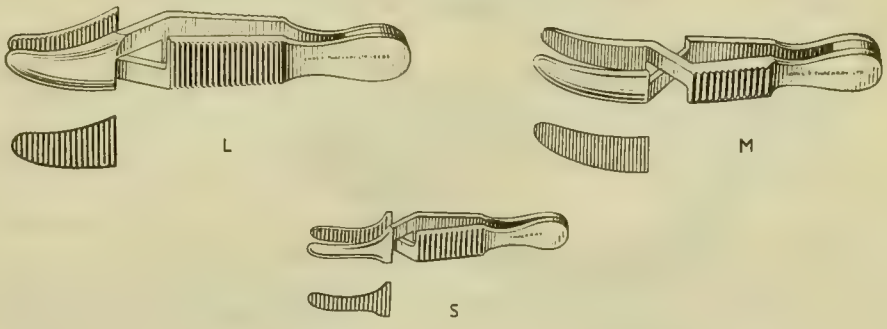


L2417

Cat. No.

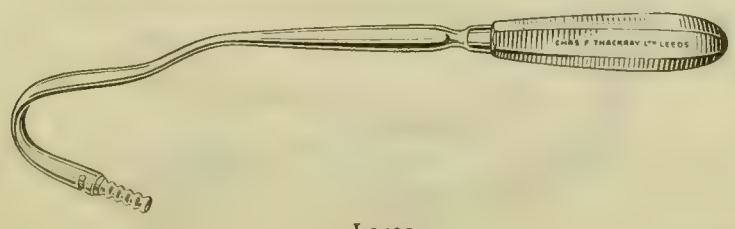
L2417 NYSTROM'S PULMONARY ARTERY CLAMP, with longitudinally grooved jaws, screw joint, stainless steel .. .. each

*L2418 Ditto .. with one into two teeth on jaws .. .. .. each



L2419

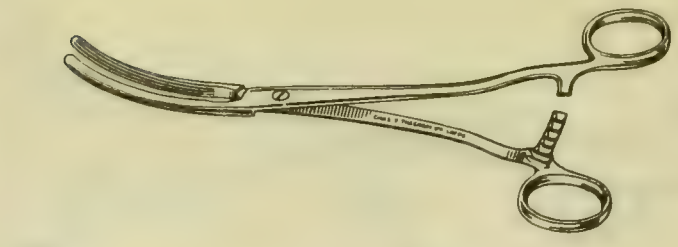
L2419 DIEFFENBACH'S ARTERY FORCEPS, curved jaws, stainless steel, three sizes : small, medium and large .. .. each



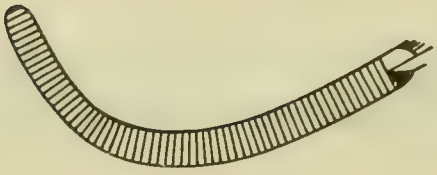
L2420

L2420 NYSTROM'S modified TRENDELENBURG'S PROBE, with bayonet fitting mount for rubber tubing, chromium plated .. .. each

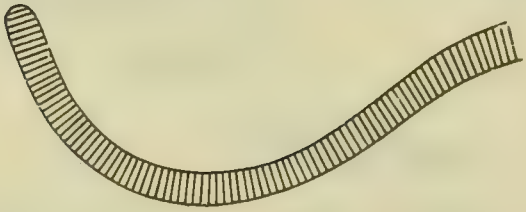
**Not illustrated*



L2421



L2422



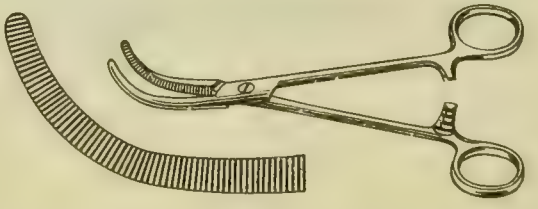
L2423

Cat. No.

L2421 CRAFOORD'S COARCTATION CLAMP, with longitudinally grooved jaws, screw joint, stainless steel .. .. each

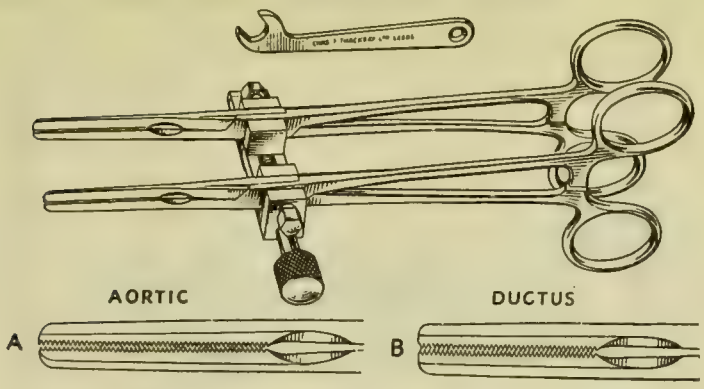
L2422 Ditto .. medium curved serrated jaws .. .. each

L2423 Ditto .. long curved serrated jaws .. .. each



L2424

L2424 CRAFOORD'S COARCTATION CLAMP, short pattern, with small curved serrated jaws, screw joint, stainless steel .. .. each



L2425–9

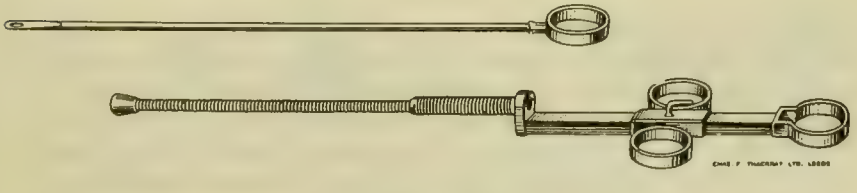
Cat. No.		
L2425	POTTS' AORTIC COARCTATION CLAMP, straight, with jaws serrated 1¼ in. (A), box joint, 7½ in., stainless steel	each
L2426	VICE to hold two clamps, stainless steel	each
L2427	SPANNER for above vice, stainless steel	each
L2428	SET, consisting of: two clamps (A), one vice and spanner	complete
L2429	POTTS' DUCTUS CLAMP, straight shanks, for the pulmonary side of ductus, with jaws serrated 1⅛ in. (B), box joint, 7 in., stainless steel	each
*L2430	Ditto .. with shanks angled-on-flat, for aortic side of ductus ..	each

Willis J. Potts, M.D., writes:

"*The principle of these clamps is embodied in a row of very fine teeth in the opposing jaws (A and B). The opposing teeth on each jaw are so constructed that if the clamp could be closed beyond a certain point they would interdigitate. However, the hub of the clamp allows complete closure but prevents the teeth from interdigitating, regardless of the pressure made on the handles. Because the teeth are so fine and so close together and, because the jaws of the clamp can be closed only to the point of contact, there is no danger of injury to the vessel. The teeth of the clamp when closed embed themselves in the adventitia and will not slip.*"

References:

Willis J. Potts, M.D.: "Surgical Treatment of Patent Ductus Arteriosus"—*Surgery, Gynæcology and Obstetrics*, May 1949, 88, 571.
Willis J. Potts, M.D.: "Technique of Resection of Coarctation of the Aorta with Aid of New Instruments"—*Annals of Surgery*, April 1950, Vol. 131, No. 4.
Willis J. Potts, M.D.: "Surgical Division of the Patent Ductus Arteriosus"—*A.M.A. Archives of Surgery*, April 1953, Vol. 66, pages 468–477.



L2431

L2431	RUMEL'S FLEXIBLE CARDIOVASCULAR TOURNIQUET, with eyed stilette, stainless steel throughout	each

This instrument is designed for control of tension on the auricular purse-string suture during mitral commissurotomy. The flexible cannula is fitted to a handle with three-ring control.
By means of the eyed stilette the suture is drawn through the cannula and attached to the hook on the finger-rings; these are adjustable along the shaft and the proper tension is maintained with the assistant's hands completely out of the wound.

**Not illustrated*

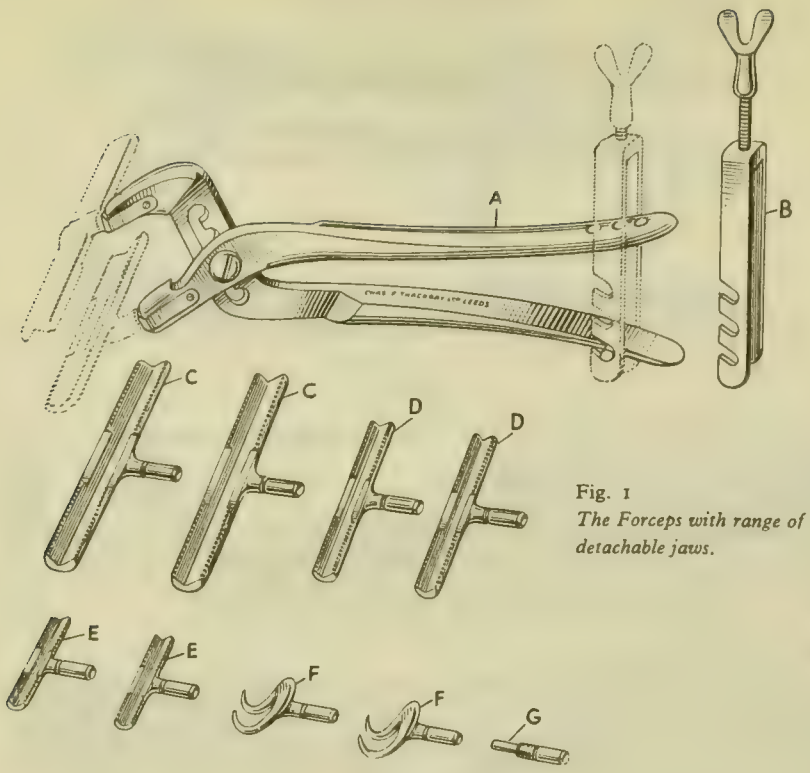


Fig. 1
The Forceps with range of detachable jaws.

B2432

Cat. No.

B2432 CHARNLEY'S ADJUSTABLE BONE-HOLDING FORCEPS, consisting of: Forceps (A), Clamping Device (B), three pairs of jaws, (C), (D) and (E), one pair of hooked jaws (F) and one "peg" (G), stainless steel, one size $\frac{7}{64}$ in. drill in extended stem to fit standard type chuck .. .. complete

DESCRIPTION

This new pattern of bone-holding forceps overcomes the disadvantage of existing models which hold together simultaneously the two ends of the fracture as well as the plate or bone graft which is to be screwed to them. In this way two forceps are required to hold the fragments and the ends of the plate or bone graft. Holding the reduction with the plate or graft in place is often hindered because the plate or graft obscures the view of the fracture line. With some clamps, such as Lowman's, there is the additional disadvantage that complete stripping of the bone ends on their deep surface is necessary when the jaws are passed underneath the fragments.

With the new clamps (Fig. 1) the two fragments of the fracture can be held in rigid alignment by themselves. It is unnecessary to clamp the plate or graft which can then be screwed to the exposed surface. The essential feature of the instrument is the shape of the detachable jaws, made in three sizes. These are V-shaped in section, with serrated edges and the fractured long bone is gripped in parallel gutters which automatically coax the fractured parts into alignment.

†DESCRIPTION *continued on page* B453

CHARNLEY'S BONE-HOLDING FORCEPS—*continued*

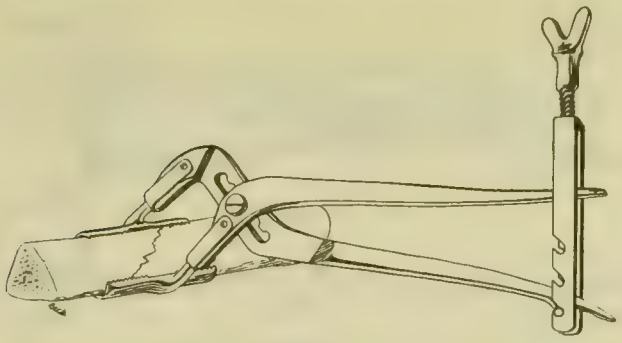


Fig. 2

Grooved Jaws, pivoted at their attachment, used for gripping long bones in bone grafting or plating.

The jaws swivel in the forceps so that the pressure of them is evenly distributed and thus fragments which taper, or are of different diameters, are securely held (Fig. 2). No stripping of the deep surface of the fracture is necessary and the fracture can be adjusted to a "hairline" fit and kept in this position during the fixation of the plate or graft. As the two fragments are rigidly held in apposition, the exposed parts of the bone held in the clamp can be "planed" with a chisel to provide a flat bed across the fracture line for a bone graft.

Whilst the smallest parallel jaws (E) are used for the radius and ulna, the two other sizes (C) and (D) are designed for large bones. The forceps has a series of slots in its joint to enable it to be adjusted to various widths of opening.

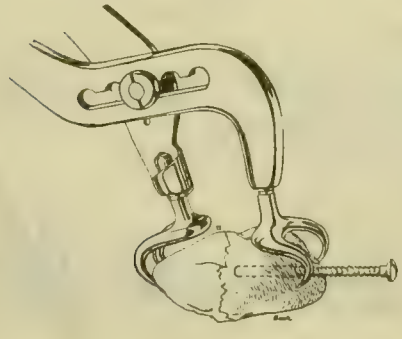


Fig. 3

Hooked jaws used to grip a fractured patella.

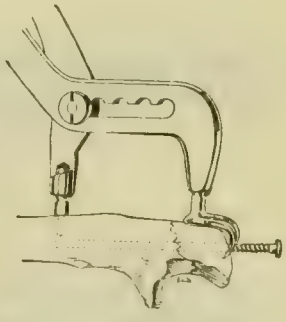
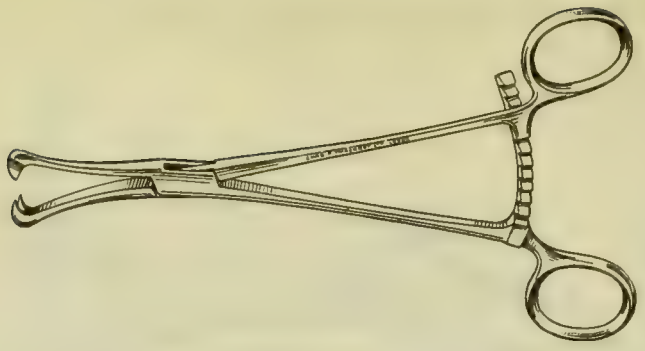


Fig. 4

Hooked jaw and peg used to grip fractured olecranon.

For holding fractures of the patella, olecranon and medial malleolus, two hooked jaws are provided for use as shown in Fig. 3. There is also a peg-shaped attachment for the medial malleolus and olecranon (Fig. 4). A hole of one-eighth inch diameter is drilled in the shaft of the ulna or tibia to act as a fixation point (Fig. 4).

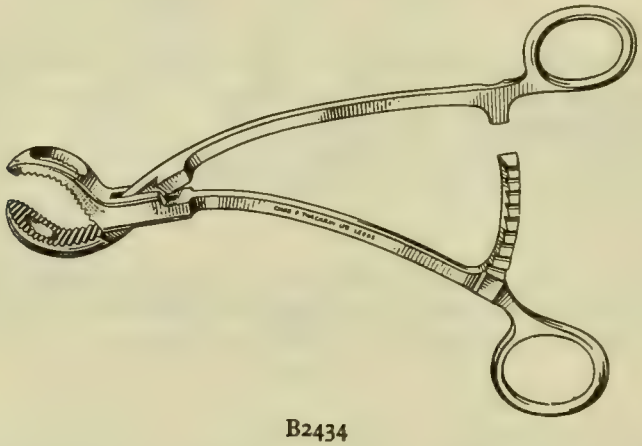
†*Vide "Journal of Bone and Joint Surgery", pages 288 and 289.*



B2433

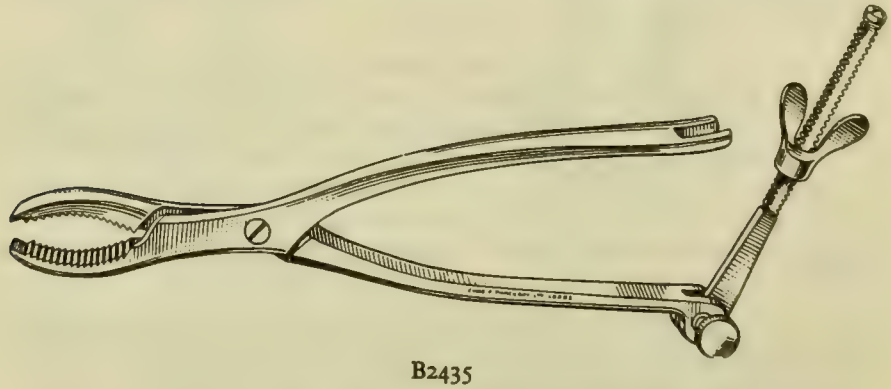
Cat. No.

B2433 SMITH-PETERSEN'S BONE GRAFT FORCEPS, box joint, 7 in., stainless steel .. .. each



B2434

B2434 BURNS' BONE-HOLDING FORCEPS, with fenestrated upper jaw, box joint, 7½ in., stainless steel .. .. each

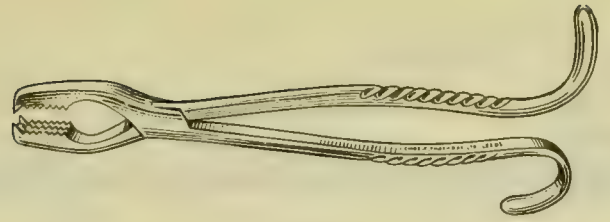


B2435

B2435 HEY GROVES' BONE-HOLDING FORCEPS, screw joint, 8 in., stainless steel .. .. each

B2436 Ditto .. 10 in. .. .. each

B2437 Ditto .. 12 in. .. .. each

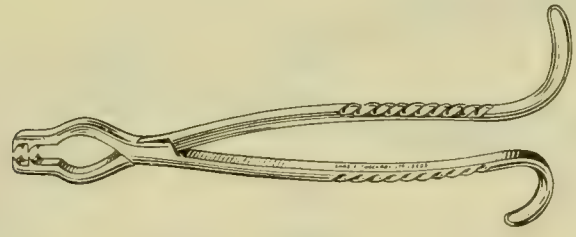


B2438

Cat. No.

B2438 LANE'S BONE-HOLDING FORCEPS, box joint, 12½ in., stainless steel, each

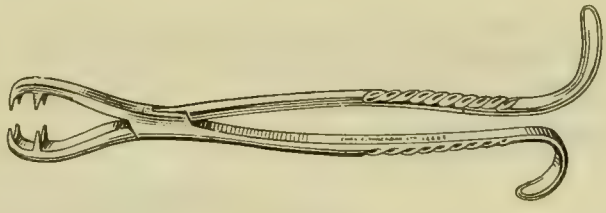
B2439 Ditto .. 17½ in. .. .. each



B2440

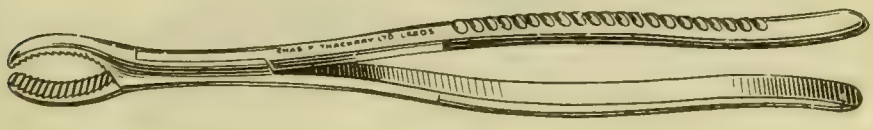
B2440 LANE'S BONE-HOLDING FORCEPS, box joint, 12½ in., stainless steel, each

B2441 Ditto .. 15½ in. .. .. each



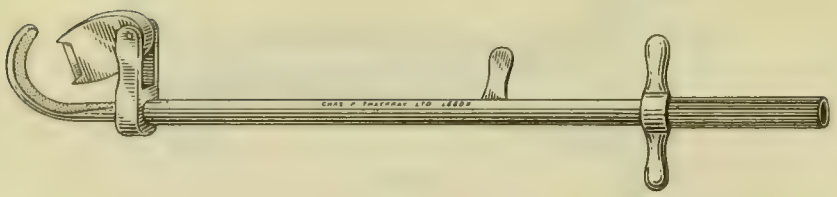
B2442

B2442 LANE'S BONE-HOLDING FORCEPS, for patella, box joint, 12½ in., stainless steel .. .. each



B2443

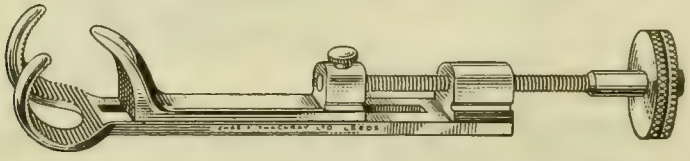
B2443 "SHEFFIELD" PATTERN BONE-HOLDING FORCEPS, box joint, 9½ in., stainless steel .. .. each



B2444

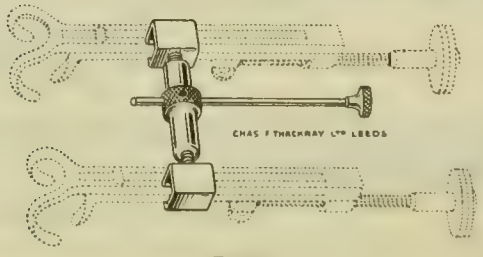
Cat. No.

B2444 SINCLAIR'S BONE CLAMP, with swivel blade, 13 in., stainless steel, each
B2445 Ditto .. 10 in. .. .. each
B2446 Ditto .. 6 in. .. .. each



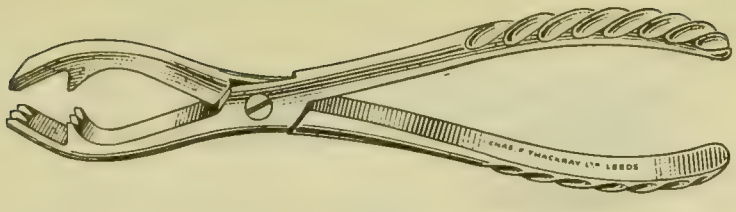
B2447

B2447 LOWMAN'S BONE CLAMP, large size, stainless steel .. .. each
B2448 Ditto .. small size .. .. each



B2449

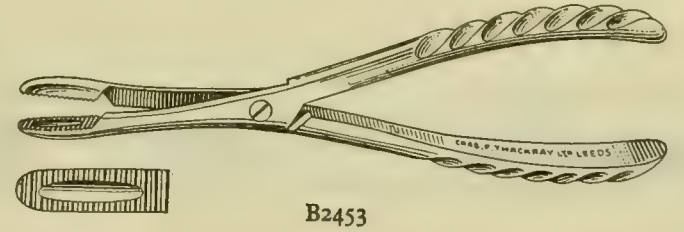
B2449 GERSTER'S DISTRACTION TURNBUCKLE, for use with Lowman's Bone Clamps, chromium plated .. .. each



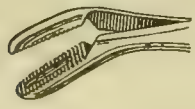
B2450

Cat. No.

B2450 FERGUSSON'S "LION" FORCEPS, screw joint, 6 in., stainless steel, each
B2451 Ditto .. 8 in. .. .. each
B2452 Ditto .. 9 in. .. .. each

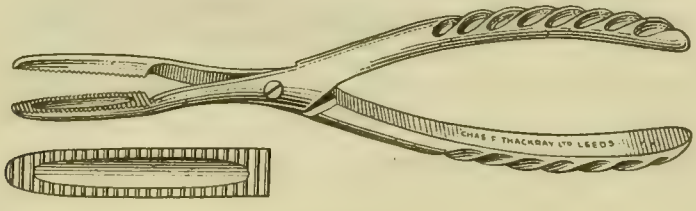


B2453

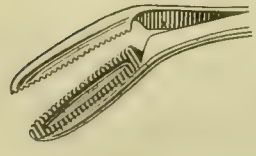


B2454

B2453 NECROSIS FORCEPS, straight, screw joint, 7½ in., stainless steel .. each
B2454 Ditto .. angled laterally .. .. each



B2455



B2456

B2455 NECROSIS FORCEPS, with narrow jaws, straight, screw joint, 7¾ in., stainless steel .. .. each
B2456 Ditto .. angled laterally .. .. each



B2457

Cat. No.

B2457 BRISTOW'S BONE LEVER (or Raspatory), 9 in., stainless steel .. each



B2458

B2458 CHARNLEY'S BONE LEVER (or Periosteal Elevator), curved blade : $\frac{7}{8}$ in. wide ; $8\frac{3}{4}$ in., stainless steel .. .. each

This instrument is simple in design, light in weight and of a convenient length.



B2459

B2459 FAGGE'S BONE LEVER (or Raspatory), $10\frac{3}{4}$ in., stainless steel .. each



B2460

B2460 LANE'S BONE LEVER, heavy, 14 in., stainless steel .. .. each



B2461

Cat. No.

B2461 LANE'S BONE LEVER, for children, lightweight, 10½ in., stainless steel, each



B2462

B2462 LANE'S BONE LEVER (or Periosteal Elevator), 12 in., stainless steel, each



B2463

B2463 LANE'S BONE LEVER, for small bones, with serrated blade, ring handle, 10¼ in., stainless steel .. .. each



B2464

B2464 LANE'S BONE LEVER (or Periosteal Elevator), 9½ ins., stainless steel, each



B2465

Cat. No.

B2465 LANE'S (or Trethowan's) BONE LEVER, ring handle, 8½ in., stainless steel, each



B2467

B2466 VOLKMANN'S RETRACTOR, with sharp five-prong blade: ⅞ in. wide, 8 in. long, stainless steel .. .. each

B2467 Ditto .. four-prong blade: ½ in. wide .. .. each



B2468

B2468 LANGENBECK'S BONE HOOK, stainless steel, chromium plated handle, each



B2469

B2469 ALLIS' RASPATORY, double-ended, stainless steel, 6½ in., stainless steel, each



B2470

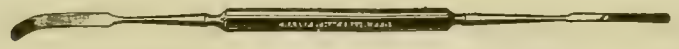
Cat. No.

B2470 DURHAM'S DISSECTOR-RASPATORY, 7½ in., stainless steel .. each



B2471

B2471 DURHAM'S DISSECTOR or RASPATORY, 7½ in., stainless steel .. each



B2472

B2472 MACDONALD'S DISSECTOR, 7½ in., stainless steel .. .. each

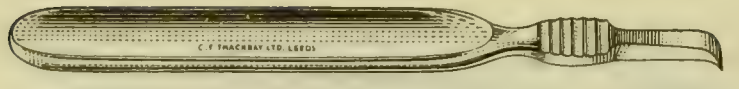


B2473

B2473 FARABEUF'S RUGINE, straight blade : 7/16 in. wide ; 6 in., stainless steel, each

B2474 Ditto .. curved blade .. .. each

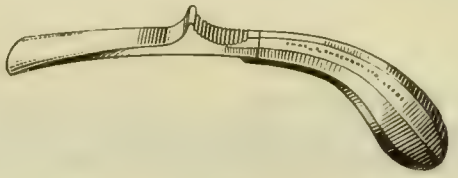
BONE INSTRUMENTS



B2475

Cat. No.

B2475 FARABEUF'S RUGINE, with curved narrow blade : ¼ in. wide ; 6 in., stainless steel .. .. each



B2476

B2476 ROBERT JONES' RUGINE, rounded edge, fan-shaped blade : 11/16 in. wide, stainless steel, chromium plated handle .. .. each



B2477

B2477 ROBINSON'S RASPATORY, 7 in., stainless steel .. .. each

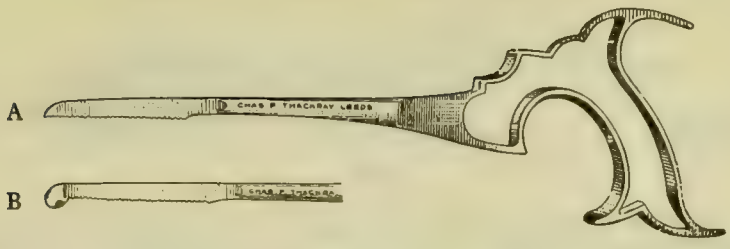


B2478

B2478 ST. THOMAS'S HOSPITAL PATTERN RASPATORY, with pointed end, 7 in., stainless steel .. .. each

*B2479 Ditto .. with rounded end .. .. each

**Not illustrated*

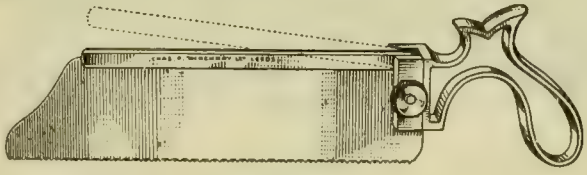


B2480–81

Cat. No.

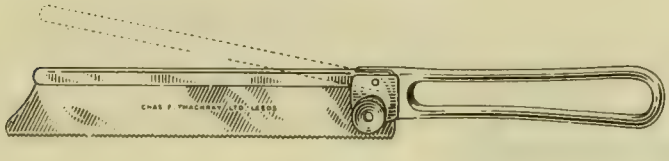
B2480 ADAMS' OSTEOTOMY SAW, with 1¼ in. blade (A), stainless steel, chromium plated handle .. .. each

B2481 ROBERT JONES' OSTEOTOMY SAW, with 2 in. probe-end blade (B), stainless steel, chromium plated handle .. .. each



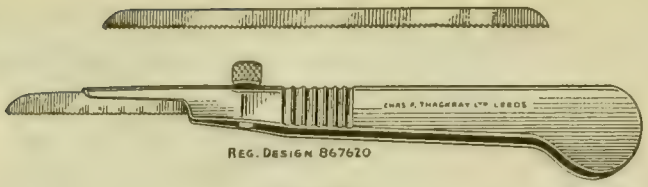
B2482

B2482 AMPUTATION SAW, 9 in. removable blade, stainless steel, with chromium plated hinged back and handle .. .. each



B2483

B2483 ARMY PATTERN AMPUTATION SAW, 7½ in. removable blade, stainless steel, with chromium plated hinged back and handle .. .. .. each



B2486

Cat. No.

B2486 BODENHAM'S SURGICAL SAW, stainless steel handle, complete with one standard steel saw-blade .. .. each

B2487 Spare Blades, standard steel .. .. each

There has long been a need for a lightweight general-purpose saw for smooth, easy, and accurate cutting of bone or metal. The saw illustrated can cut bone or steel equally well and uses interchangeable miniature hacksaw blades ¼ in. wide. These blades cost very little and are available in standard steel.

The handle is of very simple construction, being made of stainless steel sheet pressed to a shape which enables it to be held comfortably in the hand. The length of exposed saw can be easily adjusted by means of the milled-head screw, which clamps the saw-blade in position. The blade being reversible, the teeth can be faced to cut on either forward or backward strokes.

The saw was evolved for the accurate shaping and morticing of bone grafts in plastic surgery, where it has been well tried. It should find a wider field of usefulness in other types of bone surgery, since the blade is always sharp and is not blunted by cutting bone or steel. No special sterilizing precautions are necessary.

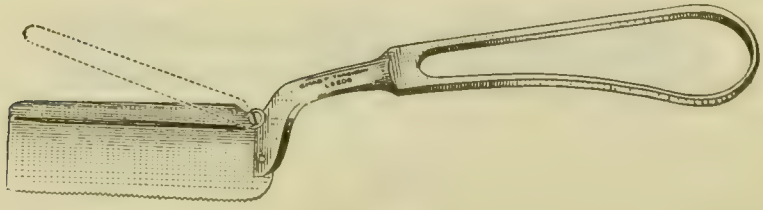
The saw is made by Chas. F. Thackray Ltd., 10 Park Street, Leeds 1.

Vide "A New Surgical Saw" by D. C. Bodenham, "The Lancet", December 20th, 1952, page 1208. (Reprinted by kind permission of the Editor of "The Lancet.")



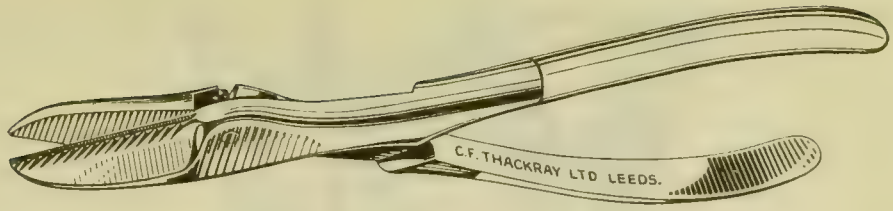
B2489

B2489 LARRY'S "KEYHOLE" FINGER SAW, 4 in. blade, solid stainless steel, each



B2490

B2490 WOOD'S JAW SAW, stainless steel, with chromium plated hinged back and handle, two sizes of blade : 1¾ in. and 2¼ in. .. .. .. each

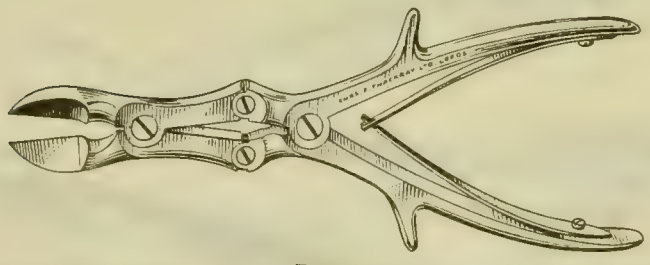


B2491

Cat. No.

B2491 BAYOUMI'S BONE-CUTTING FORCEPS, straight, *now fitted with spring*, take-apart joint, 9¾ in., stainless steel .. .. each

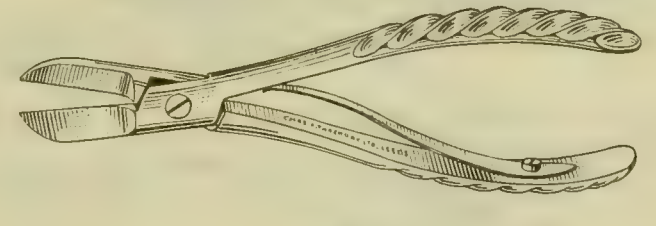
The lower blade is serrated to prevent slipping.



B2492

B2492 HORSLEY'S BONE-CUTTING FORCEPS, straight, with double spring, multiple-action joints, 10½ in., stainless steel .. .. .. each

B2493 Ditto .. curved-on-flat .. .. each



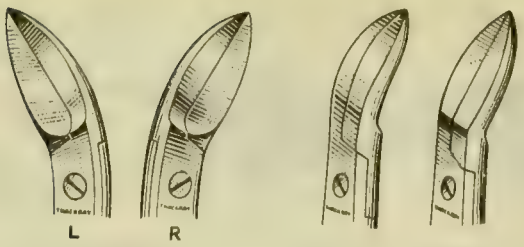
B2495

B2494 LISTON'S BONE-CUTTING FORCEPS, straight, with spring, screw joint, 6 in., stainless steel .. .. each

B2495 Ditto .. 7 in. .. .. each

B2496 Ditto .. 8 in. .. .. each

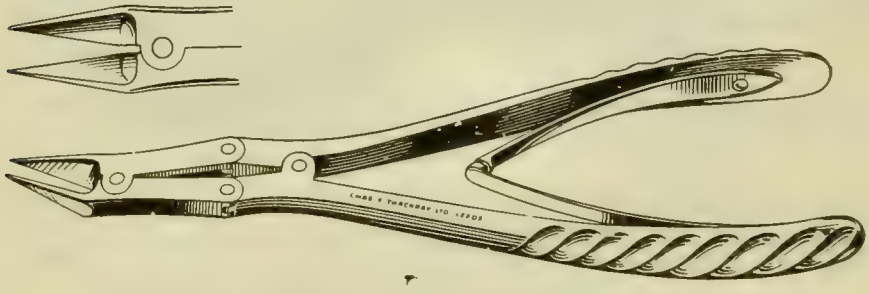
B2497 Ditto .. 9 in. .. .. each



B2498–9 B2500 B2501 B2502 B2503

Cat. No.

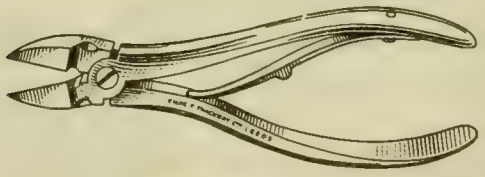
B2498	LISTON'S BONE-CUTTING FORCEPS, angled-to-right or left side (*please state*), with spring, screw joint, 8 in., stainless steel	each
B2499	Ditto .. 9 in., angled-to-left or right side (*please state*)	each
B2500	Ditto .. curved-on-flat, 8 in.	each
B2501	Ditto .. 9 in.	each
B2502	Ditto .. angled-on-flat, 8 in.	each
B2503	Ditto .. 9 in.	each



B2504

B2504 McINDOE'S BONE-CUTTING FORCEPS, for small bones, angled-on-flat, with double spring, multiple-action joints, 7½ in., stainless steel .. .. each

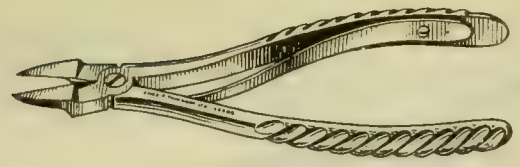
Particularly useful in surgery of the fingers and toes.



B2505

B2505 PATON'S BONE-CUTTING FORCEPS, for small bones, with spring and off-set blades, circular joint, 5½ in., stainless steel .. .. each

Particularly useful in surgery of the fingers and toes.

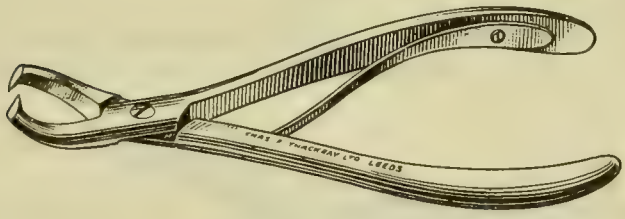


B2506

Cat. No.

B2506 STAMM'S BONE-CUTTING FORCEPS, with spring and light off-set blades, circular joint, 6 in., stainless steel .. .. each

For base of phalanx, in arthrodesis of the toe.

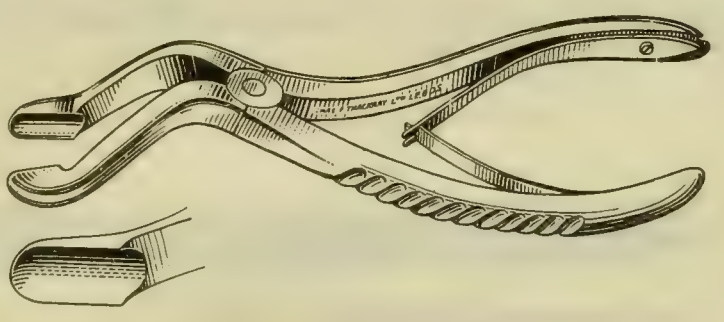


B2507

B2507 STAMM'S BONE-CUTTING FORCEPS, with spring and end cutting blades, screw joint, 7¼ in., stainless steel .. .. each

For head of phalanx, in arthrodesis of the toe.

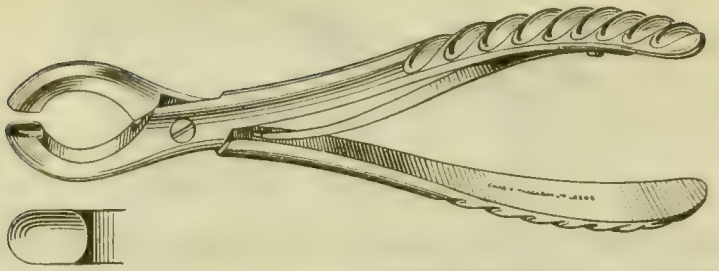
Stamm's Osteotomes : Fig. 2549.



B2508

B2508 BROOMHEAD'S (modified Jansen's) GOUGE FORCEPS, double curved, with double spring, circular joint, stainless steel .. ..

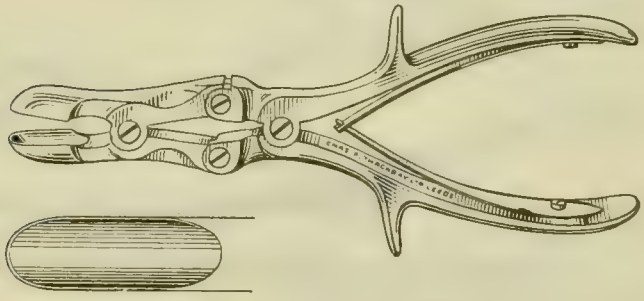
These forceps are heavier than the original Jansen's and are useful in surgery of the hip.



B2509

Cat. No.

B2509 FERGUSSON'S GOUGE FORCEPS, straight, with spring, screw joint, 7¾ in., stainless steel .. .. each

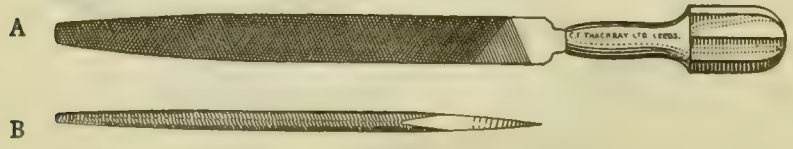


B2510

B2510 VAN HAVRE'S GOUGE FORCEPS, straight, with double spring, multiple-action joints, 9½ in., stainless steel .. .. each

B2511 Ditto .. curved-on-flat .. .. each

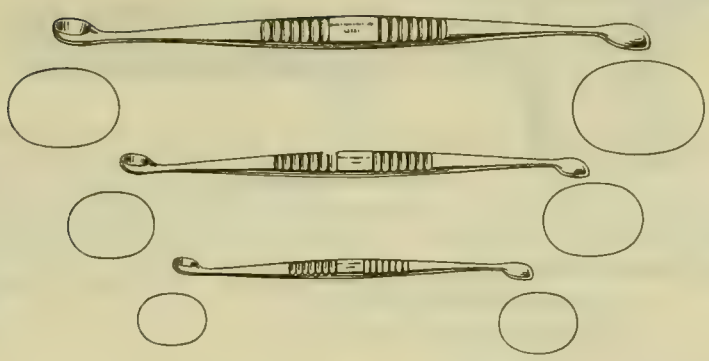
Gouge Forceps : see also pages V554–V556.



B2512–3

B2512 BONE FILE, hard steel blade, convex on one side and flat on the other (A), chromium plated handle .. .. each

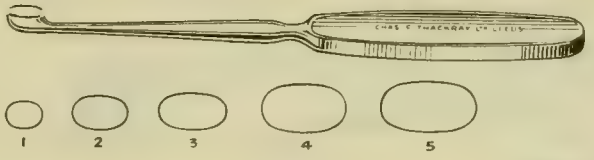
B2513 Ditto .. cylindrical blade (B) .. .. each



B2514

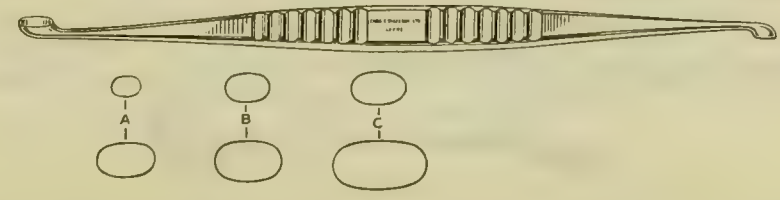
Cat. No.

B2514 BOYD'S SCOOP, double-ended, stainless steel, three lengths: 6 in., 8 in. and 10 in., each with a different size scoop at each end .. .. each



B2515

B2515 VOLKMANN'S SCOOP, stainless steel, 6½ in., five sizes: 1, 2, 3, 4 and 5, each



B2516

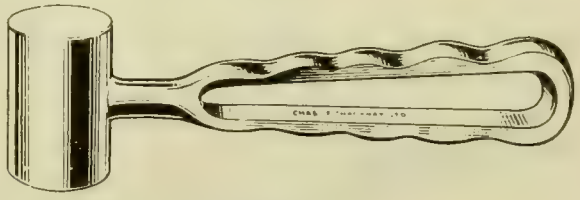
B2516 VOLKMANN'S SCOOP, double-ended, 8½ in., stainless steel, three models: A, B and C, each with a different size scoop at each end .. .. each



B2517

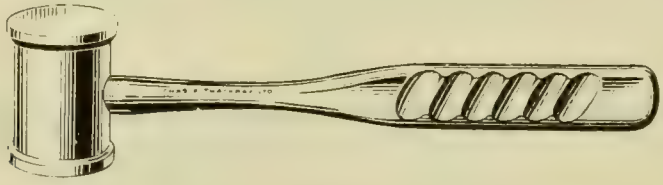
Cat. No.

B2517 MALLET, boxwood, ½ lb., diameter of head: 1⅞ in. .. .. each
B2518 Ditto .. 1 lb., diameter of head: 2¼ in. .. .. each
B2519 Ditto .. 2 lb., diameter of head: 2¾ in. .. .. each



B2520

B2520 HEATH'S MALLET, solid copper, 18 oz., diameter of head: 1⅜ in., silver plated, each
B2521 Ditto .. 28 oz., diameter of head: 1¾ in. .. .. .. each



B2522

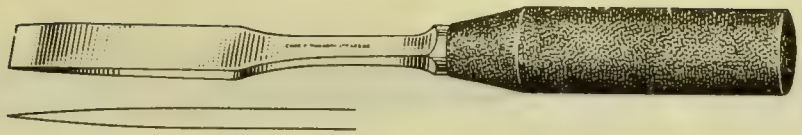
B2522 MALLET, solid stainless steel, ¾ lb., diameter of head: 1⅜ in. .. each



B2523

B2523 MALLET, small, with tapered head of solid copper, chromium plated handle, each

Particularly useful for small osteotomes, chisels and gouges.



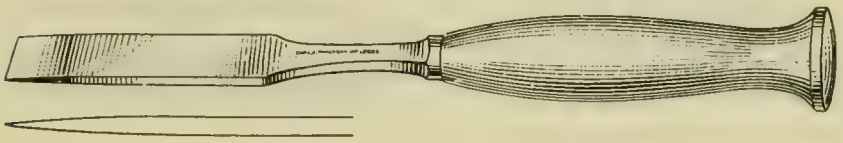
B2524

Cat. No.

B2524 OSTEOTOME, †stainless steel blade, plasticised fabric handle, 9 in., five sizes: ⅜ in., ½ in., ¾ in., 1 in. and 1¼ in. wide .. .. each

B2525 Ditto .. tungsten steel blade, plated .. .. each

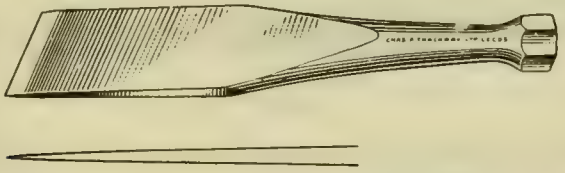
The handle is composed of fabric plasticised to form a hard material. The usual forms of sterilizing can be used: boiling, autoclaving or immersion in solution, without effect on the material. It will not chip under blows from mallet or hammer. Light in weight, it provides a balance similar to that of a carpenter's wood chisel.



B2526

B2526 OSTEOTOME, †stainless steel blade, shaped duralumin handle, 9½ in., five sizes: ⅜ in., ½ in., ¾ in., 1 in. and 1¼ in. wide .. .. each

B2527 Ditto .. tungsten steel blade, plated .. .. each



B2528

B2528 ALBEE'S OSTEOTOME, †stainless steel, 6¼ in., four sizes: ¾ in., 1 in., 1¼ in. and 1½ in. wide .. .. each

B2529 Ditto .. tungsten steel plated .. .. each

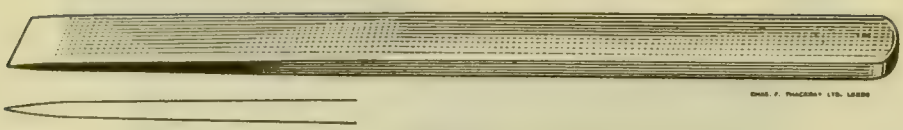


B2530

B2530 BRISTOW'S OSTEOTOME, †stainless steel, 10 in., five sizes: ⅜ in., ½ in., ¾ in., 1 in. and 1¼ in. wide .. .. each

B2531 Ditto .. tungsten steel plated .. .. each

†*Correct grade for edge instruments.*

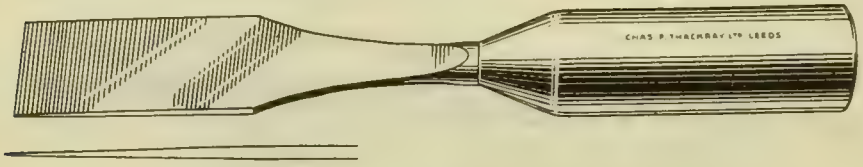


B2532

Cat. No.

B2532 McMURRAY'S OSTEOTOME, flat, †stainless steel, 10 in., three sizes: ½ in., ¾ in. and 1 in. wide .. .. each

B2533 Ditto .. tungsten steel plated .. .. each



B2534

B2534 BUCK'S OSTEOTOME, †stainless steel blade, large duralumin handle, 9¼ in., five sizes: ⅜ in., ½ in., ¾ in., 1 in. and 1¼ in. wide .. .. .. each

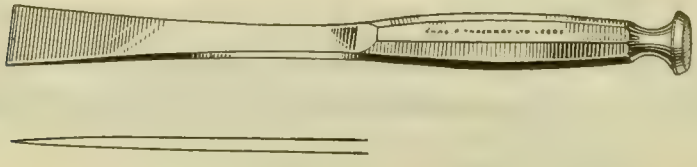
B2535 Ditto .. tungsten steel blade, plated .. .. each



B2536

B2536 FRENCH PATTERN OSTEOTOME, †stainless steel, 5¾ in., four sizes: 5 mm., 7 mm., 9 mm. and 11 mm. wide .. .. each

Particularly useful in surgery of fingers and toes.

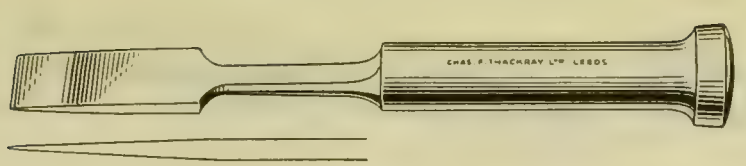


B2537

B2537 HIBBS' OSTEOTOME, lightweight, †stainless steel, 7½ in., five sizes: ⅜ in., ½ in., ¾ in., 1 in. and 1¼ in. wide .. .. each

B2538 Ditto .. tungsten steel blade, plated .. .. each

†Correct grade for edge instruments.

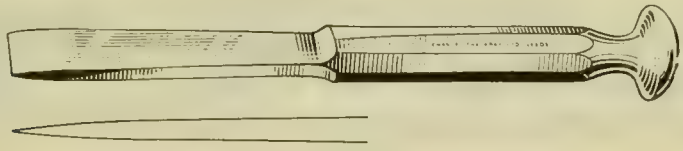


B2539

Cat. No.

B2539 WHITCHURCH HOWELL'S OSTEOTOME, †stainless steel, 8 in., three sizes: ½ in., 1 in. and 1½ in. wide .. .. each

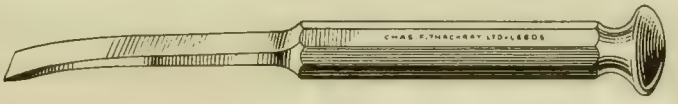
B2540 Ditto .. tungsten steel plated .. .. each



B2541

B2541 MACEWEN'S OSTEOTOME, †stainless steel, 7½ in., five sizes: ⅜ in., ½ in. ¾ in., 1 in. and 1¼ in. wide .. .. each

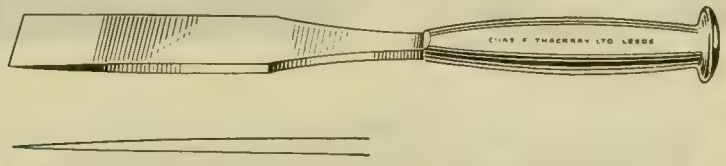
B2542 Ditto .. tungsten steel plated .. .. each



B2543

B2543 PLATT'S OSTEOTOME, curved, †stainless steel, 7½ in., four sizes: ⅜ in., ½ in., ¾ in. and 1 in. wide .. .. each

B2544 Ditto .. tungsten steel plated .. .. each

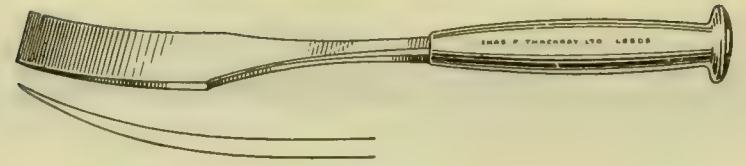


B2545

B2545 SMITH-PETERSEN'S OSTEOTOME, straight, †stainless steel, 8 in., five sizes: ⅜ in., ½ in., ¾ in., 1 in. and 1¼ in. wide .. .. each

B2546 Ditto .. tungsten steel plated .. .. each

†*Correct grade for edge instruments.*

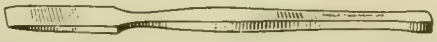


B2547

Cat. No.

B2547 SMITH-PETERSEN'S OSTEOTOME, curved, †stainless steel, 8 in., two sizes: ½ in. and ¾ in. wide .. .. each

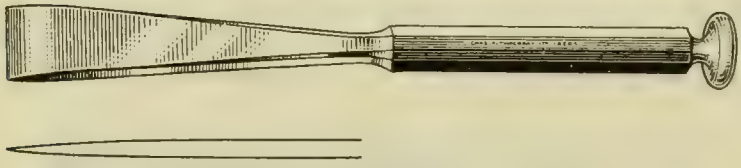
B2548 Ditto .. tungsten steel plated .. .. each



B2549

B2549 STAMM'S OSTEOTOME, †stainless steel, 4¾ in., two sizes: 3/16 in. and ¼ in. wide, each

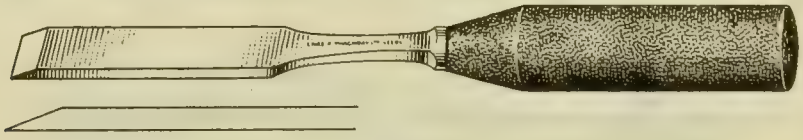
Designed for use in arthrodesis of the toe.



B2550

B2550 SWEDISH PATTERN OSTEOTOME, †stainless steel, 8 in., five sizes: ⅜ in., ½ in., ¾ in., 1 in. and 1¼ in. wide .. .. each

B2551 Ditto .. tungsten steel plated .. .. each



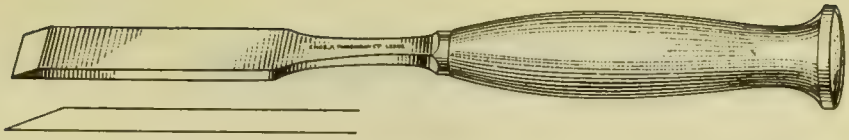
B2552

B2552 CHISEL, †stainless steel blade, plasticised fabric handle, 9 in., five sizes: ⅜ in., ½ in., ¾ in., 1 in. and 1¼ in. wide .. .. each

B2553 Ditto .. tungsten steel blade, plated .. .. each

The handle is composed of fabric plasticised to form a hard material. The usual forms of sterilizing can be used: boiling, autoclaving or immersion in solution, without effect on the material. It will not chip under blows from mallet or hammer. Light in weight, it provides a balance similar to that of a carpenter's wood chisel.

†Correct grade for edge instruments.

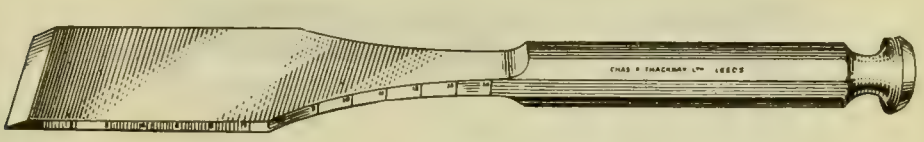


B2554

Cat. No.

B2554 CHISEL, †stainless steel blade, shaped duralumin handle, 9½ in., five sizes: ⅜ in., ½ in., ¾ in., 1 in. and 1¼ in. wide .. .. each

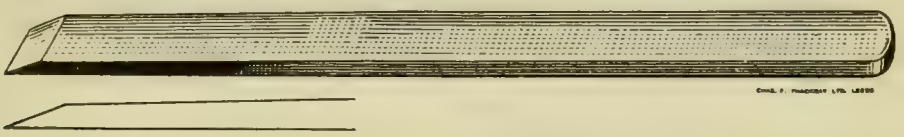
B2555 Ditto .. tungsten steel blade, plated .. .. each



B2556

B2556 BRITTAIN'S ARTHRODESIS CHISEL, graduated blade, †stainless steel, 10¼ in., one size: 1½ in. wide .. .. each

B2557 Ditto .. tungsten steel plated .. .. each



B2558

B2558 McMURRAY'S CHISEL, flat, †stainless steel, 10 in., three sizes: ½ in., ¾ in. and 1 in. wide .. .. each

B2559 Ditto .. tungsten steel plated .. .. each



B2560

B2560 HAHN'S CHISEL, †stainless steel, 7 in., three sizes: ⅜ in., ½ in. and ⅝ in. wide, each

B2561 Ditto .. tungsten steel plated .. .. each

†Correct grade for edge instruments.

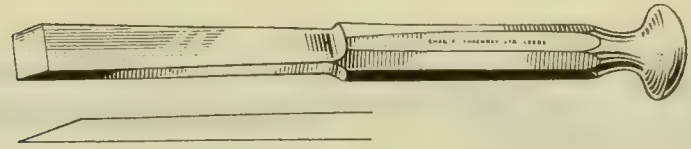


B2562

Cat. No.

B2562 JENKINS' CHISEL, †stainless steel, 5½ in., six sizes: 2 mm., 4 mm., 6 mm., 8 mm., 10 mm. and 12 mm. wide .. .. each

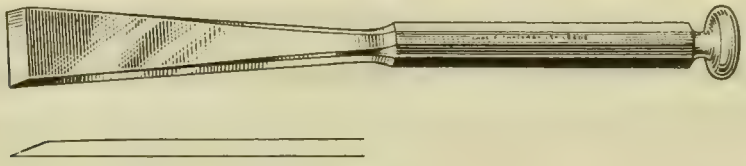
Particularly useful in surgery of fingers and toes.



B2563

B2563 MACEWEN'S CHISEL, †stainless steel, 7½ in., five sizes: ⅜ in., ½ in., ¾ in., 1 in. and 1¼ in. wide .. .. each

B2564 Ditto .. tungsten steel plated .. .. each



B2565

B2565 SWEDISH PATTERN CHISEL, †stainless steel, 8 in., five sizes: ⅜ in., ½ in., ¾ in., 1 in. and 1¼ in. wide .. .. each

B2566 Ditto .. tungsten steel plated .. .. each



B2567

B2567 ALEXANDER'S GOUGE, slender, †stainless steel, 6½ in., six sizes: 4 mm., 6 mm., 8 mm., 10 mm., 12 mm. and 14 mm. wide .. .. each

†Correct grade for edge instruments.



B2568

Cat. No.

B2568 JENKINS' GOUGE, †stainless steel, 5½ in., five sizes: 3 mm., 4 mm., 6 mm., 8 mm. and 10 mm. wide .. .. each



B2569

B2569 ROBERT JONES' ARTHRODESIS GOUGE, †stainless steel, 7 in., four sizes: ⅝ in., ⅞ in., 1 in. and 1½ in. wide .. .. each

B2570 Ditto .. tungsten steel plated .. .. each



B2571

B2571 ST. THOMAS'S HOSPITAL PATTERN GOUGE, †stainless steel, 7 in., five sizes: ¼ in., ⅜ in., 7/16 in., ½ in. and ¾ in. wide .. .. .. each

B2572 Ditto .. tungsten steel plated .. .. each

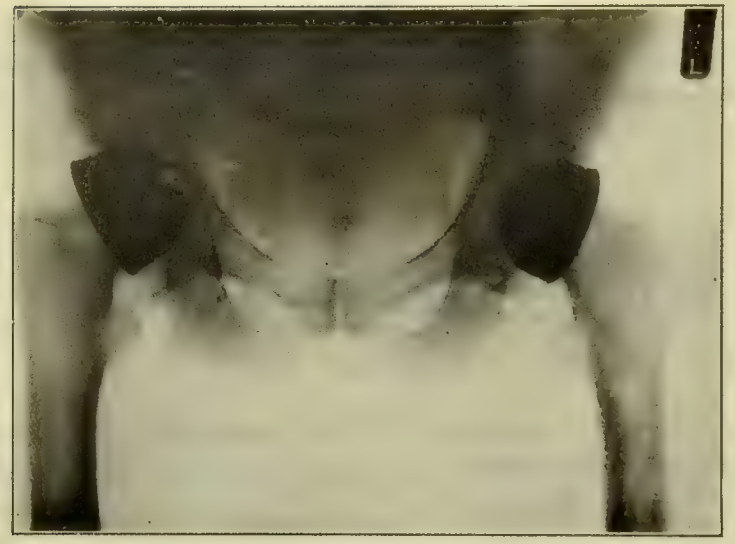


B2573

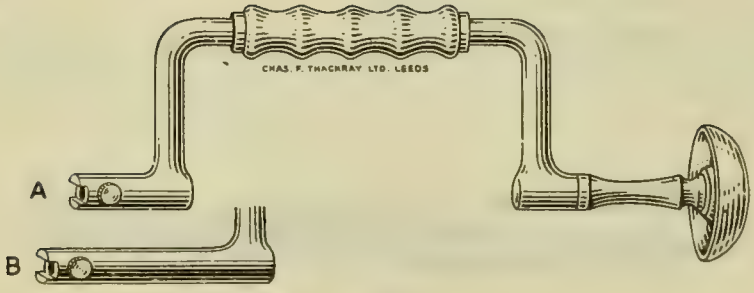
B2573 SWEDISH PATTERN GOUGE, †stainless steel, 8 in., four sizes: ⅜ in., ½ in., ¾ in. and 1 in. wide .. .. each

B2574 Ditto .. tungsten steel plated .. .. each

†Correct grade for edge instruments.



ARTHROPLASTY MOULDS *IN SITU*



B2575-6

Cat. No.

B2575 HUDSON'S BRACE, with shaft (A), for use with Broomhead's femoral head reamers, stainless .. .. each

B2576 Ditto .. with long shaft (B) for use with Broomhead's acetabulum reamers, stainless .. .. each

BROOMHEAD'S IMPROVED SMITH-PETERSEN'S REAMERS, for femoral head and acetabulum, to fit Hudson's Brace.

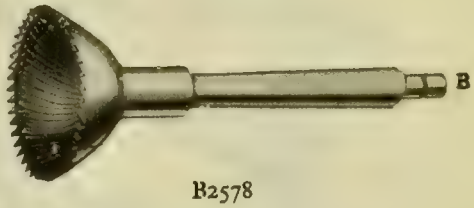
The left-hand spiral cutting teeth automatically eject bony fragments.

In the following sizes, which bear accurate relation to standard hip moulds:

Reamer Diameters:	Femur Head	Acetabulum	Hip Moulds
Size 1	1·390 in.	1·872	1S 1M 1L
Size 2	1·570 in.	2·060 in.	2S 2M 2L
Size 3	1·750 in.	2·332 in.	3S 3M 3L



B2577



B2578

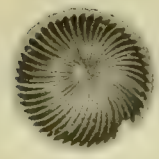
Cat. No.

B2577 CONCENTRIC REAMER (A) for shaping the acetabulum, stainless steel, three sizes: 1, 2 and 3 .. .. each

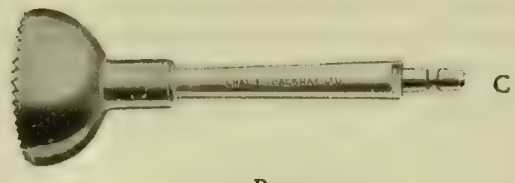
For use with brace

B2578 CONCENTRIC ROUGHING REAMER (B) for initial shaping of the femoral head, stainless steel, three sizes: 1, 2 and 3 .. .. each

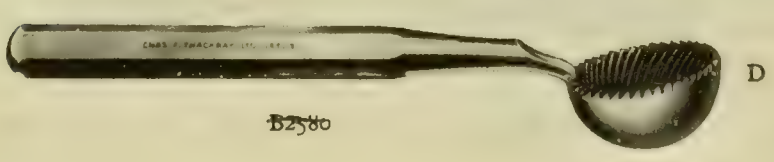
For use with brace.



Left-hand Spiral Cutting Teeth



B2579

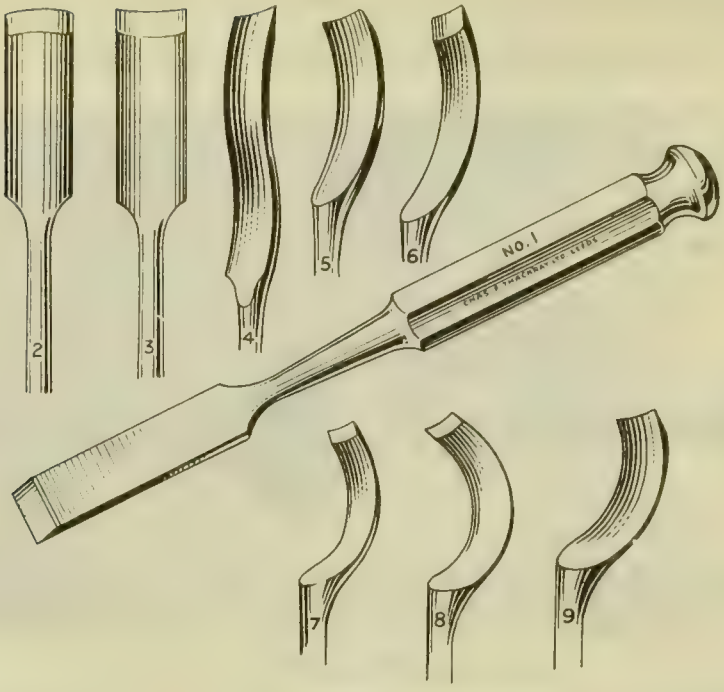


B2580

B2579 CONCENTRIC FINISHING REAMER (C) for final shaping of the femoral head, stainless steel, three sizes: 1, 2 and 3 .. .. each

For use with brace.

B2580 ECCENTRIC REAMER (D), *with handle*, for shaping the femoral head, stainless steel, three sizes: 1, 2 and 3 .. .. each



B2581–2

Cat. No.

BROOMHEAD'S CHISELS and GOUGES for mould arthroplasty:

B2581	Chisels, Nos. 1 to 3, †stainless steel, two sizes: large and small ..	each
B2582	Gouges, Nos. 4 to 9, †stainless steel .. Ditto	each
B2583	Chisels, Nos. 1 to 3, tungsten steel plated .. Ditto	each
B2584	Gouges, Nos. 4 to 9, tungsten steel plated .. Ditto	each

For mould arthroplasty a special set of nine has been devised. They are of various shapes, numbered 1 to 9, and are made in two sizes: large and small. The larger ones are $\frac{3}{4}$ in. wide, $8\frac{1}{2}$ in. long (except two shapes, Nos. 6 and 7, which are $\frac{1}{2}$ in.) and the smaller size $\frac{1}{2}$ in. wide, 7 in. long.

Nos. 1 to 3 are straight, but Nos. 2 and 3 are curved in transverse section, No. 2 being bevelled on the outer surface of the curve and No. 3 on the inner surface.

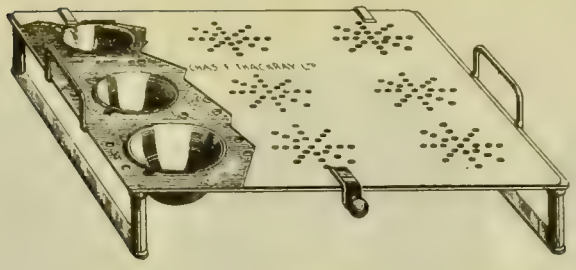
Nos. 1 and 3 are used for clearing the head of the femur; No. 2 is used for beginning osteotomy of the acetabulum.

No. 4 is a reverse gouge which is very useful for removing the posterior lip of the acetabulum.

Nos. 5 and 9 are used for trimming the excess of bone from the postero-inferior quadrant of the head of the femur after the major part of the head has been reshaped by the concentric reamer.

Nos. 6, 7 and 8 are for gouging out the acetabulum, No. 6 being used as a starter, while Nos. 7 and 8 are curved to correspond with the shape of the mould. When the floor of the acetabulum has been removed, the part that is left corresponds with the outline of the mould and makes reaming by the male concentric reamer easier and more satisfactory.

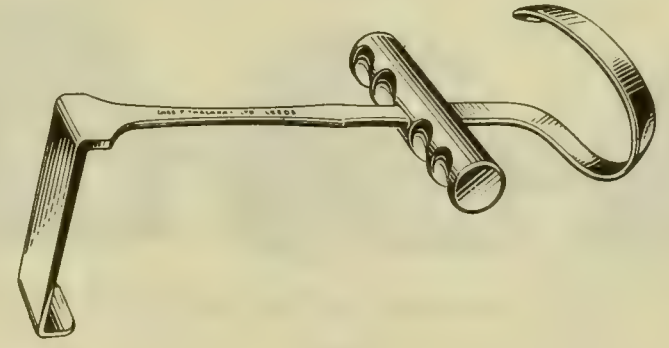
†*Correct grade for edge instruments.*



B2585

Cat. No.

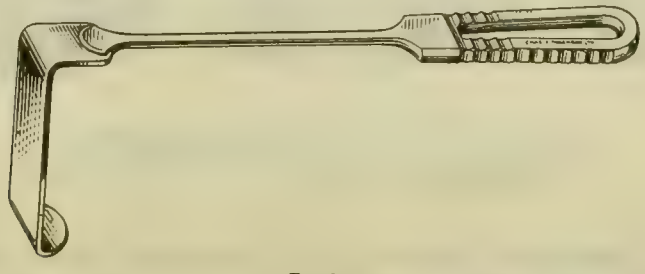
B2585 BROOMHEAD'S STERILIZER TRAY, chromium plated, to hold a set of nine hip moulds .. .. each



B2586

B2586 BROOMHEAD'S PSOAS RETRACTOR, fitted with hand grip and wrist support, stainless steel, two sizes of blade: $3\frac{1}{8}$ in. deep by $1\frac{1}{8}$ in. wide, and $2\frac{3}{4}$ in. deep by $\frac{7}{8}$ in. wide .. .. each

This retractor has been specially designed to enable an assistant to retract the psoas and abdominal muscles for long periods without fatigue.



B2587

B2587 BROOMHEAD'S PSOAS RETRACTOR, with simple handle, stainless steel, two sizes of blade: $3\frac{1}{8}$ in. deep by $1\frac{1}{8}$ in. wide, and $2\frac{3}{4}$ in. deep by $\frac{7}{8}$ in. wide, each



B2588

Cat. No.

B2588 SMITH-PETERSEN'S HIP MOULDS, for hip arthroplasty, ‡Vitallium, nine styles: 1S, 2S, 3S; 1M, 2M, 3M; 1L, 2L, 3L .. .. each

†B2588A Ditto .. stainless steel .. .. each

‡*An alloy, approximately: cobalt* 65%, *chromium* 30% *and molybdenum* 5%.
†*Made of Austenitic Stainless Steel, British Standard Specification* EN58J.

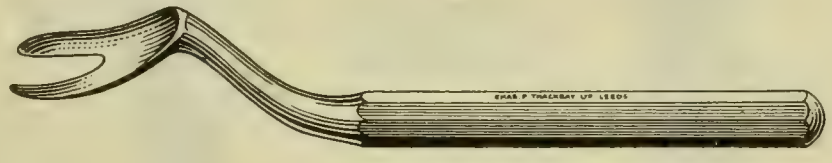


B2589

Cat. No.

B2589 SMITH-PETERSEN'S ARTHROPLASTY GOUGE, with off-set handle, †stainless steel, two sizes: $\frac{7}{8}$ in. and $1\frac{1}{4}$ in. width of blade .. .. each

B2590 Ditto .. tungsten steel plated .. .. each



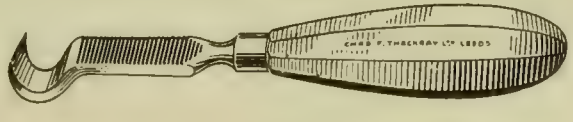
B2591

B2591 SMITH-PETERSEN'S HIP RETRACTOR, stainless steel .. .. each



B2592

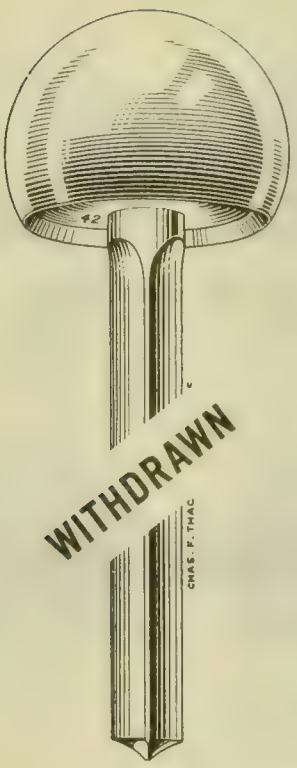
B2592 OLLERENSHAW'S (modified Murphy's) "SKID" with $3\frac{1}{2}$ in. scoop, 13 in. stainless steel .. .. each



B2593

32593 JACKSON CLARKE'S ACETABULUM RASPATORY, stainless steel, chromium plated handle .. .. each

†*Correct grade for edge instruments.*



B2594



B2597

Cat. No.

B2594 MacGOWAN'S FEMUR HEAD, machined from single piece of †stainless steel, sizes to order: see Fig B2598. Diameter of stem 13 mm. (·50 in.) .. each

The head forms two-thirds of a sphere and has a flat base.
Vide "The Lancet", September 1st, 1951, page 387.

*B2595 Ditto .. but with base recessed as Judet's Acrylic Femur Head, sizes to order: see Fig. B2598 .. .. each

*B2596 Ditto .. but with base recessed as Merle D'Aubigné's Acrylic Femur Head, sizes to order: see Fig. B2598 .. .. each

B2597 MODIFIED MacGOWAN'S FEMUR HEAD, machined from a single piece of †stainless steel, sizes to order: see Fig. B2598 .. .. .. each

Model B2597 has been devised for use in those cases where a broken acrylic prosthesis is to be replaced by a stainless steel one. The base is recessed, the stem triangular in section and $\frac{5}{8}$ in. diameter: this enables the fins to bite into the outer margin of the existing hole in the femoral neck.

†*Made of Austenitic Stainless Steel, British Standard Specification* EN58J.

**Not illustrated*



B2598

MADE OF NON-PLASTICISED METHYL-METHACRYLATE



B2599

Cat. No.

B2598 MERLE D'AUBIGNÉ'S modified JUDET'S ACRYLIC FEMUR HEAD, with rounded recess and a stainless steel insert in stem, diameter of stem: 14 mm. (·550 in.), eighteen sizes, i.e. six diameters of head: 41, 43, 45, 47, 49 and 51 mm., each diameter in three lengths of stem: 6, 7 and 8 cm. .. .. each

B2599 Ditto .. with neck extensions: 1 cm. neck extension, stem lengths 5, 6 and 7 cm.; 2 cm. neck extension, stem lengths 5 and 6 cm. .. .. .. each

*B2600 JUDET'S AUGER, stainless steel .. .. each

*B2601 JUDET'S PERFORATOR or DRILL, with a stepped graduation of diameter from 11 to 13 mm. stainless steel .. .. each

*B2602 JUDET'S REAMER, nickel plated .. .. each

*B2603 MERLE D'AUBIGNÉ'S REAMER, two sizes, with multiple blades, nickel plated: No. 1 for heads 41, 43 and 45 mm.; No. 2 for heads 47, 49 and 51 mm. .. each

*B2604 JUDET'S FEMUR NECK RETRACTOR, stainless steel, used in pairs, per pair

*B2605 ACETABULUM REAMER, Broomhead's, fig B2577, page B479 .. each

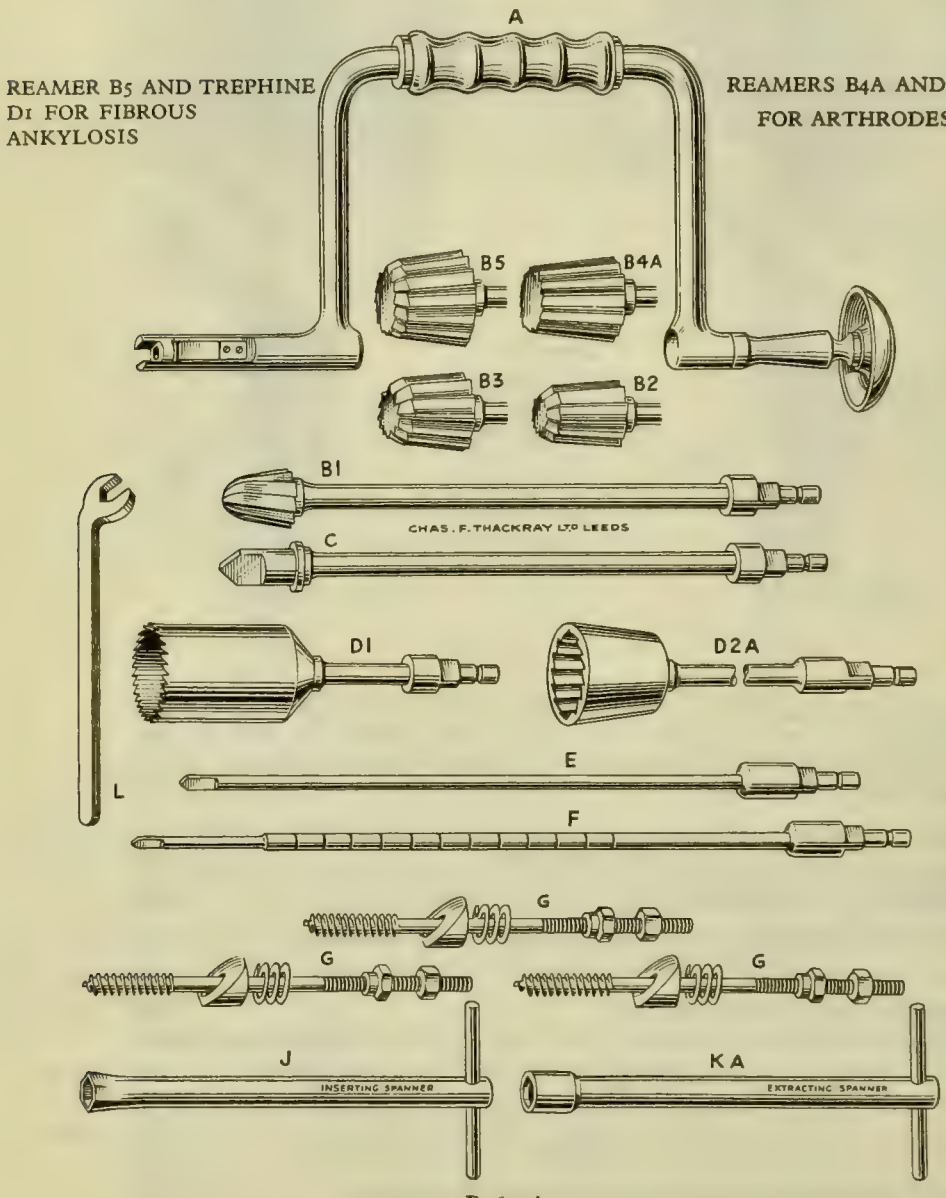
*B2605A Brace, for use with above, Broomhead's, fig. B2576, page B478 .. each

*B2606 JUDET'S IMPACTOR, aluminium .. .. each

NOTE.—Original Judet's Type Heads supplied on request

**Not illustrated*

CHARNLEY'S INSTRUMENTS FOR CENTRAL DISLOCATION STABILISATION AND COMPRESSION ARTHRODESIS OF THE HIP



B2607A

CHARNLEY'S HIP ARTHRODESIS SET

For Description see pages B487-9

SURGERY OF THE HIP

CHARNLEY'S INSTRUMENTS FOR CENTRAL DISLOCATION STABILISATION AND COMPRESSION ARTHRODESIS OF THE HIP, Cat. No. B2607A-B2611A.

This set of instruments has been modified by certain additions and deletions as recommended by Mr. John Charnley. The complete set now comprises the following items:

STARTING DRILL (C), for boring a hole $\frac{5}{8}$ in. diameter in the floor of the acetabulum, stainless steel.

REAMER (B1) for enlarging hole bored by starting drill, stainless steel.
Ditto .. (B2) to enlarge hole bored by B1, stainless steel.
Ditto .. (B3) to enlarge hole bored by B2, stainless steel.
†Ditto .. (B4A) to enlarge hole bored by B3, stainless steel.
Ditto .. (B5) to enlarge hole bored by B4, stainless steel.

Reamers B2-B5 *are blunt at end and so cannot damage the soft contents of the interior of the pelvis; their cutting sides are tapered to prevent accidental over-penetration into the pelvic cavity.*

TREPHINE (D1), for shaping the femoral head to form a cylinder to pass into the hole made in the floor of the acetabulum, stainless steel.

†TREPHINE (D2A), tapering, for shaping the femoral head to form a cone to correspond with hole made in the floor of the acetabulum by flat-topped reamer B4A, stainless steel.

†CLEARANCE DRILL (E) $\frac{1}{4}$ in. head, for boring a hole through the trochanters, stainless steel.

TAPPING DRILL (F) $\frac{5}{32}$ in. head, with "stop" shoulder, stem with $\frac{1}{2}$ in. graduations, for boring a hole in the ilium to take compression screw, stainless steel.

†COMPRESSION SCREW UNITS (G), three, new improved pattern each consisting of $6\frac{1}{2}$ in. special helical-thread screw $\frac{3}{8}$ in. outside diameter with $\frac{1}{4}$ in. diameter stem, metal block obliquely shaped to the outer surface of the greater trochanter, compression spring and two hexagon nuts, *stainless steel.

†SPANNER, (L) 45° angle, stainless steel. Used in conjunction with Inserting Spanner (J) to lock two nuts together on Compression Unit (G).

INSERTING SPANNER (J) for hexagon nut of Compression Unit, stainless steel.

*EXTRACTING SPANNER (KA), stainless steel, hexagonal box is deep enough to enable the inner nut to be engaged so that the two nuts will lock together for extraction of the screw.

Cat. No. B2607A BRACE (A), stainless steel, with handle off-set 5 in. from shaft to give wide "throw" of turn, nozzle fitted with spring locking device, to fit tools B–F.

Set of all instruments as detailed above, in set of two nesting metal sterilising trays

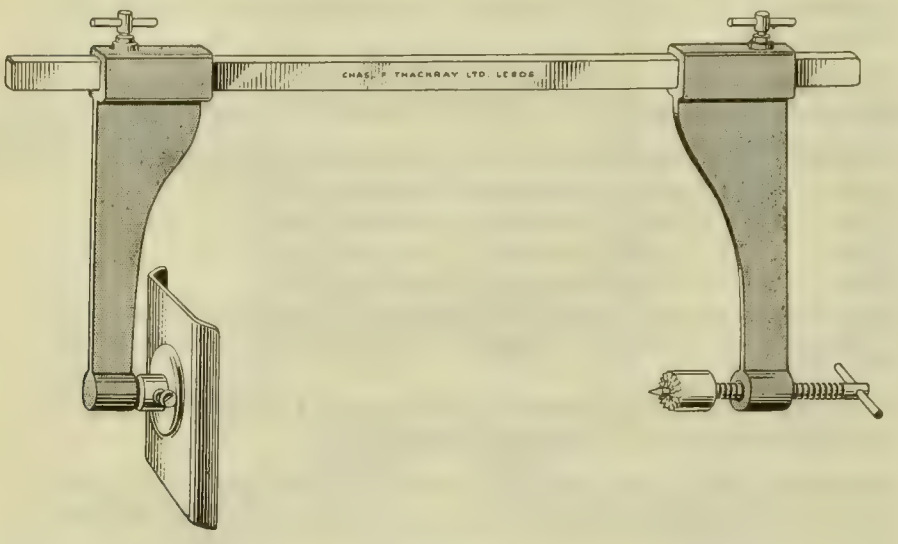
SPARE PARTS:—

B2608A COMPRESSION UNIT (G), with two nuts, shaped metal block and spring, *stainless steel

†*For full information, see technical notes by Mr. John Charnley, Page* B489.
**Made of Austenitic Stainless Steel, British Standard Specification* EN58J.

CONTINUED OVERLEAF

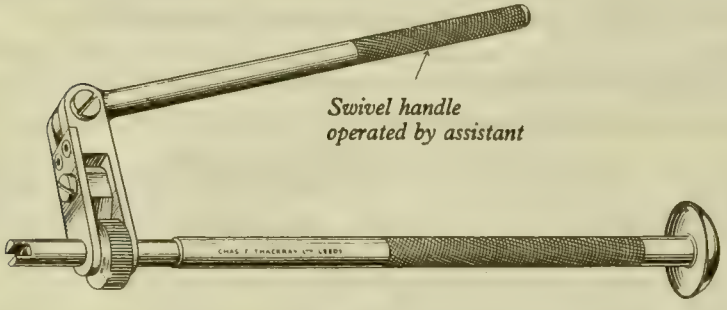
CHARNLEY'S INSTRUMENTS FOR CENTRAL DISLOCATION STABILISATION AND COMPRESSION ARTHRODESIS OF THE HIP



B2609A

Cat. No.

B2609A CHARNLEY'S "G" COMPRESSION CLAMP, consisting of bar, 24 in. long with two sliding clamps, aluminium alloy and stainless steel .. .. each



B2610A

B2610A CHARNLEY'S RATCHET BRACE, stainless steel .. .. each

B2611A SET OF INSTRUMENTS, as detailed on Page B487, fig. B2607A, including *"G" Compression Clamp and *Ratchet Brace .. .. complete

*"G" *Clamp and Ratchet Brace are too large to fit standard case and are supplied as separate items.*

CHARNLEY'S INSTRUMENTS FOR CENTRAL DISLOCATION STABILISATION AND COMPRESSION ARTHRODESIS OF THE HIP, Cat. No. B2607A-B2611A.

The following technical notes have been supplied by Mr. John Charnley, and are published with his permission.

"The instruments are used in two procedures:

(1) Central Dislocation to obtain fibrous ankylosis, used in the older age-groups and (2) Arthrodesis proper, using internal fixation, which is used in the younger age-groups. The following selection of instruments from the complete set are suitable for each operation:

FIBROUS ANKYLOSIS:

Starting Drill (C), Reamers B1–B5, Trephine (D1), Brace (A).

ARTHRODESIS:

All instruments illustrated on page B.486 except largest Male Reamer B5, plus "G" Compression Clamp, Cat. B2609A.

Ratchet Brace, Cat. B2610A, *is an extra optional item for either operation.*

Use of the Instruments:

"The male and female mating trephines (B4A and D2A) for acetabulum and femoral head are used in arthrodesis of the hip by the central dislocation method.

In the simple central dislocation stabilisation, where it is not the primary object to get bony fusion, the male reamer, B5, is used in direct sequence with the other reamers from B1 to B5 to enlarge the hole in the acetabulum to the maximum size.

In performing the arthrodesis it is not desirable for the head of the femur to pass completely through into the pelvis, and for this reason the hole in the acetabulum is enlarged up to the mating reamer, B4A, and the femoral head, after being reamed by the parallel hollow trephine, D1, is reduced further in size by the hollow tapered female reamer, D2A, so that this will mate with the hole in the acetabulum and resist the spring pressure exerted by the compression screw.

In this way the compression screw has a firm bony resistance to work against, and shortening of the leg is minimised."

Ratchet Brace (Catalogue B2610A).

"The ratchet brace has been devised in order to allow the assistant to apply force while the surgeon merely directs the tool; in this way, penetration of the floor of the acetabulum is easier and less exhausting for the surgeon. The ratchet brace is also of use in driving the drills necessary to insert the compression screw into the hip, because the direction of the screw makes it impossible for an ordinary brace to be turned through a complete revolution as the operator's hand is obstructed by the side of the patient's thigh".

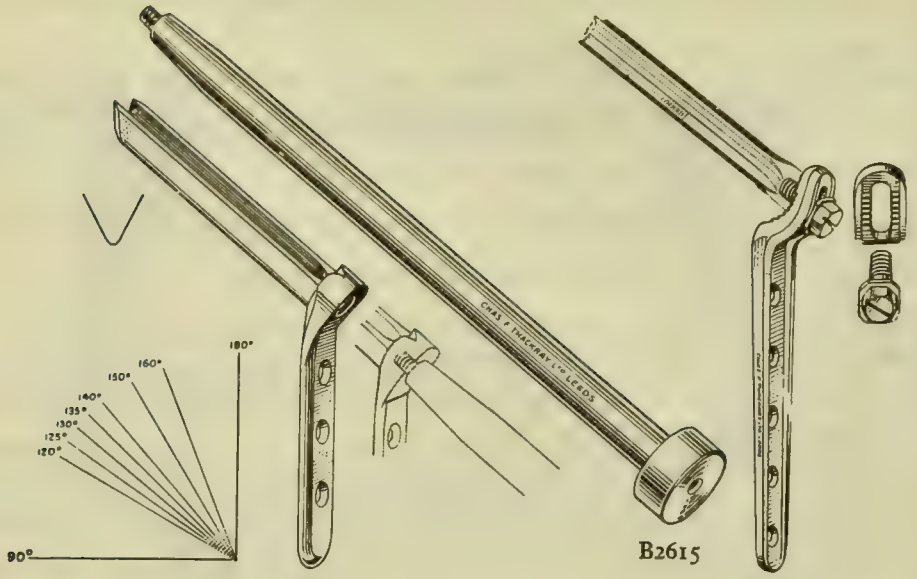
Compression Clamp (Catalogue B2609A).

"When converting the Central dislocation operation into an arthrodesis it is of vital importance that the trochanters are in firm contact with the side of the pelvis. To obtain this it is desirable to use a large clamp which is applied across the outside of the patient's body on the operating table to compress the central dislocation to its deepest point of penetration. One end of the clamp is provided with a curved plate which is applied over the normal trochanter on the sound side (over the towels) and the opposite end is provided with a small spike which is applied to the trochanter through the open wound. After tightening the clamp to compress the pelvis from side to side, it is possible to take check X-rays with drills in position, to ensure that the compression screw will be inserted in the correct direction. When arthrodesis of the hip is required (as opposed to the fibrous union procedure with retention of a little movement) I now regard this clamp as being absolutely essential to the success of the operation".

Compression Screw (Item (G) Catalogue B2608A).

The screw has a shank of $\frac{1}{4}$" diameter and a helical thread of $\frac{3}{8}$" outside diameter. The oblique block has a hole which is a loose fit on the $\frac{1}{4}$" shank but which is too small for the passage of the $\frac{3}{8}$" thread. This has the advantage that extraction of the screw is very simple by means of the new EXTRACTING SPANNER (KA). To insert the screw two simple nuts are applied to the free end and locked against each other, using the Angled Spanner (L) and Inserting Spanner (J); the screw may now be driven into the bone by the Inserting Spanner (J) engaging the most superficial of the two nuts and very powerful force can be applied. When the screw is deep enough the nuts are freed by unlocking them, using the spanners (L) and (J) simultaneously in opposite directions and both nuts are now removed so that the oblique block and spring can be put into position. Both nuts are now re-applied, the second nut being used as a locking nut after tightening.

"Any excessive projection of the screw is cut off by using a large 'bolt cutter'. This procedure has the advantage that it flattens out the end of the screw and so facilitates extraction at a later date."



B2613 B2615 B2616

Cat. No.

*B2613 CAPENER-NEUFELD'S INTERTROCHANTERIC NAIL-PLATE, consisting of a V-shaped nail with three-holed plate, †stainless steel .. .. each

*B2614 Ditto .. four-holed plate .. .. each

Nail-Plate Sizes: Angle

120°
125°
130°
135°

each angle in four lengths of nail: 2¾ in., 3 in., 3¼ in. and 3½ in.

***MADE IN ONE PIECE**

Other sizes to order. *Screws: Fig.* B2680.

B2615 CAPENER'S DRIVER for above, with 2·5 mm. cannulation, stainless steel, each

B2616 McLAUGHLIN'S INTERTROCHANTERIC PLATE, five-holed, 3¾ in. long, complete with locking collar and set-screw, ‡Vitallium .. .. each

B2616A Ditto .. †Stainless Steel .. .. each

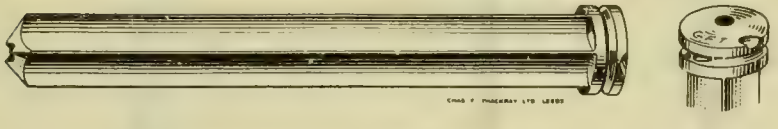
B2617 Ditto .. seven-holed, 5¼ in. long, ‡Vitallium .. .. .. each

B2617A Ditto .. †Stainless Steel .. .. each

With this plate a Smith-Petersen Type Hip Nail can be fixed by means of the set-screw and locked at a desired angle. To fit standard Smith-Petersen's Hip Nails Fig. B2620-2. *Screws: Fig.* B2681.

†*Made of Austenitic Stainless Steel, British Standard Specification* EN58J.

‡*An alloy, approximately: cobalt* 65%, *chromium* 30% *and molybdenum* 5%.



B2618

Cat. No.

B2618 WATSON-JONES' modified SMITH-PETERSEN'S HIP NAIL, with 2·5 mm. cannulation, and hole through head for Pidcock's Pin, 13 mm. diameter, †stainless steel, lengths: 2½ in., 2¾ in., 3 in., 3⅛ in., 3¼ in., 3⅜ in., 3½ in., 3⅝ in., 3¾ in., 3⅞ in., 4 in. and 4⅛ in. .. .. each

B2618A Ditto .. ‡Vitallium .. .. each

B2619 Ditto .. longer sizes for arthrodesis: 4¼ in., 4½ in., 4¾ in., 5 in., 5¼ in., 5½ in., 5¾ in., 6 in. and 6¼ in. †stainless steel .. .. each

B2619A Ditto .. ‡Vitallium .. .. each



LATEST PATTERN WITH SERRATED HEAD

B2620

B2620 SMITH-PETERSEN'S HIP NAIL, with 2·5 mm. cannulation, †stainless steel, 13 mm. diameter, lengths: 2½ in., 2¾ in., 3 in., 3⅛ in., 3¼ in., 3⅜ in., 3½ in., 3⅝ in., 3¾ in., 3⅞ in., 4 in. and 4⅛ in. .. .. each

B2621 Ditto .. longer sizes for arthrodesis: 4¼ in., 4½ in., 4¾ in., 5 in., 5¼ in., 5½ in., 5¾ in., 6 in. and 6¼ in. .. .. each

B2622 SMITH-PETERSEN'S HIP NAILS, ‡Vitallium, lengths: 3 in., 3¼ in., 3½ in., 3¾ in., 4 in., 4¼ in., 4½ in., 4¾ in., 5 in., 5¼ in., 5½ in., 5¾ in. and 6 in. .. each



B2625

B2625 PIDCOCK'S FIXATION PIN, for use with hip nails Figs. B2618–9, to anchor the hip nail to the femoral cortex, †stainless steel .. .. .. each

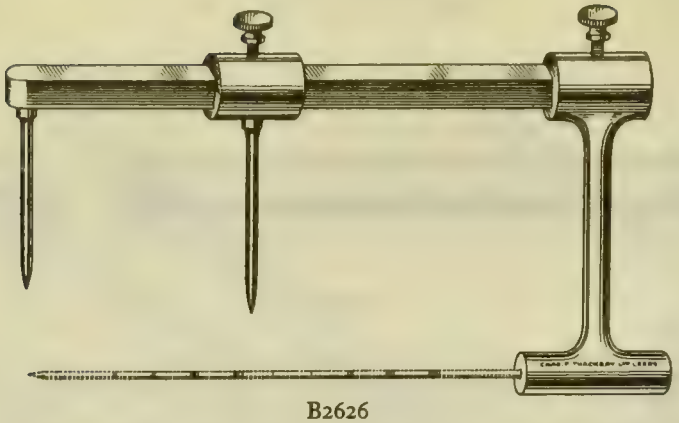
B2625A Ditto .. for use with hip nails B2618A–19A, ‡Vitallium .. .. each

†*Made of Austenitic Stainless Steel, British Standard Specification* EN58J.

‡*An alloy, approximately: cobalt* 65%, *chromium* 30% *and molybdenum* 5%.

BONE INSTRUMENTS

SURGERY OF THE HIP



B2626

Cat. No.

B2626 HEY GROVES' DIRECTION GUIDE, for Watson-Jones' Guide Wires, stainless steel .. .. each

*B2627 Ditto .. Pridie's modification, with longer pins for obese patients .. each



B2628

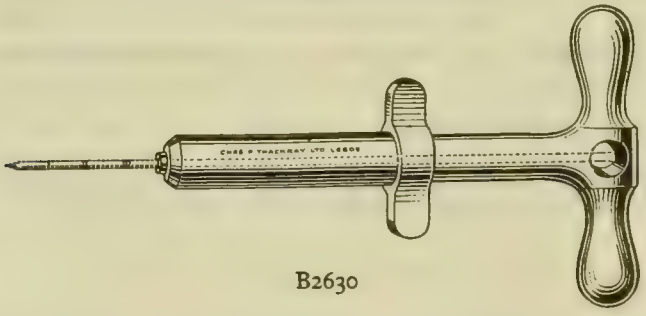
†B2628 WATSON-JONES' GUIDE WIRES, nickel plated, with ¼ in. copper-plate graduations, 2·5 mm. diameter, three lengths: 7 in., 9 in. and 10 in. .. each

†B2629 Ditto .. with centimetre graduations .. .. each

†B2629A Ditto .. ungraduated, stainless steel, three lengths: 7 in., 9 in. and 10 in., each

†*A smooth surface is now preferred to machined ring graduations.*

Drill Stocks for guide wires: page B505.



B2630

B2630 WATSON-JONES' INTRODUCER, for guide wires, with 2·5 cannulation, stainless steel .. .. each



B2631

B2631 HEY GROVES' MEASURE, for use with X-rays to position pins of the direction guide, graduated by notches in ½ in., stainless steel .. .. .. each

B2632 Ditto .. graduated in cms. .. .. each

**Not illustrated*



B2633

Cat. No.

B2633 SMITH-PETERSEN'S STARTER, for hip nails, with 2·5 mm. cannulation, 6¼ in., stainless steel .. .. each



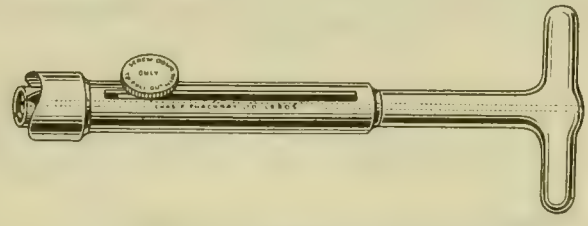
B2634

B2634 SMITH-PETERSEN'S IMPACTOR, for hip nails, as used by Böhler, with 2·5 mm. cannulation, 8¼ in., chromium plated .. .. .. each



B2635

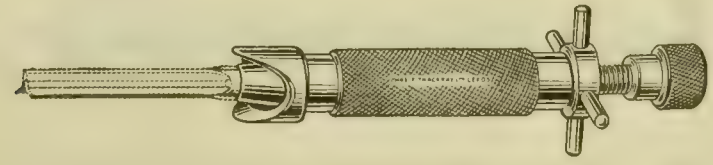
B2635 SVEN JOHANSSON'S PUNCH, for hip nails, with 2·5 mm. cannulation, 7 in., stainless steel .. .. each



B2636

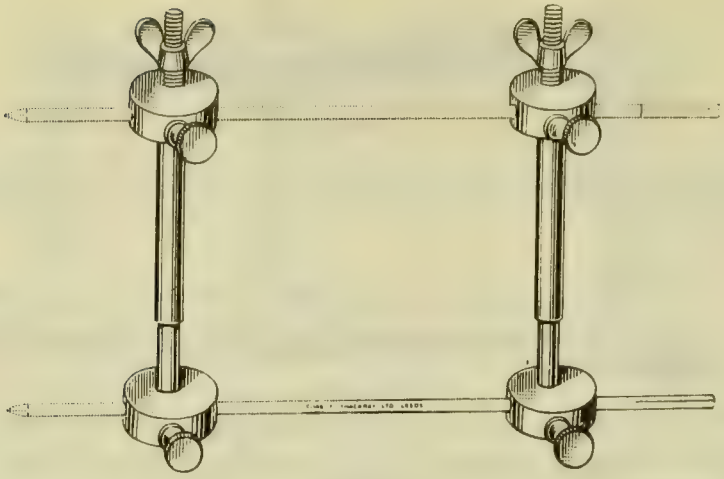
B2636 PRIDIE-BROOMHEAD'S NAIL EXTRACTOR, with 2·5 mm. cannulation and "claw" to fit a Watson-Jones' grooved-head hip nail, stainless steel, each

The milled-head screw is for gripping and extracting guide wire.



B2637

B2637 SMITH-PETERSEN'S NAIL EXTRACTOR AND IMPACTOR combined, with 2·5 mm. cannulation and threaded stem to fit a Smith-Petersen's threaded-head hip nail, chromium plated sheath .. .. each



B2638

Cat. No.

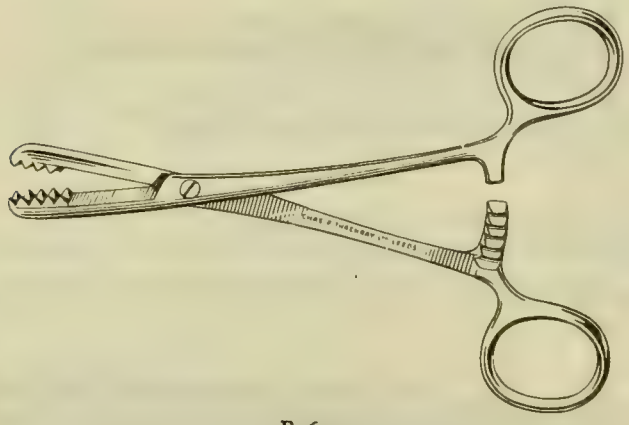
*B2638 CHARNLEY'S CLAMP, for compression arthrodesis of the knee, consisting of: two stainless steel bars complete with improved circular chromium plated blocks, fitted with wing-nuts and pin fixing screws, *without pins* .. .. per set

*B2639 Ditto .. heavy pattern for obese patients .. .. .. per set

*B2640 STEINMANN'S PINS for use with standard size knee clamp, trocar points, 4 mm. diameter, †stainless steel, two lengths: 8 in. and 10 in. .. .. each

*B2641 Ditto .. for use with heavy pattern, 5 mm. diameter, 10 in. long .. each

**Vide "Compression Arthrodesis" by John Charnley, F.R.C.S. (Livingstone* 1953) *Pages* 257–8).

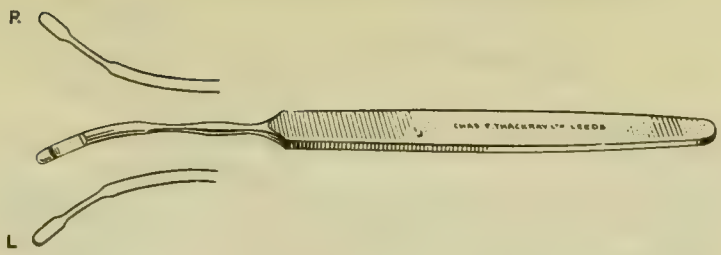


B2642

B2642 MARTIN'S CARTILAGE FORCEPS, screw joint, 5¼ in., stainless steel, each

B2643 Ditto .. 7 in. .. .. each

†*Made of a special grade of Austenitic Stainless Steel to minimise risk of breakage, and with trocar point to facilitate insertion.*

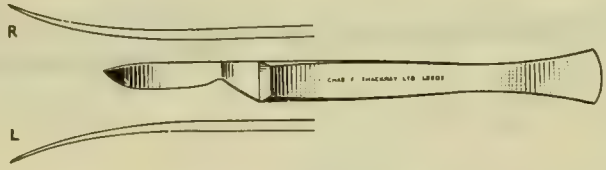


B2644

Cat. No.

B2644 FAIRBANK'S MENISCOTOMY KNIVES, two patterns: cutting-to-left and cutting-to-right, nickel plated .. .. each

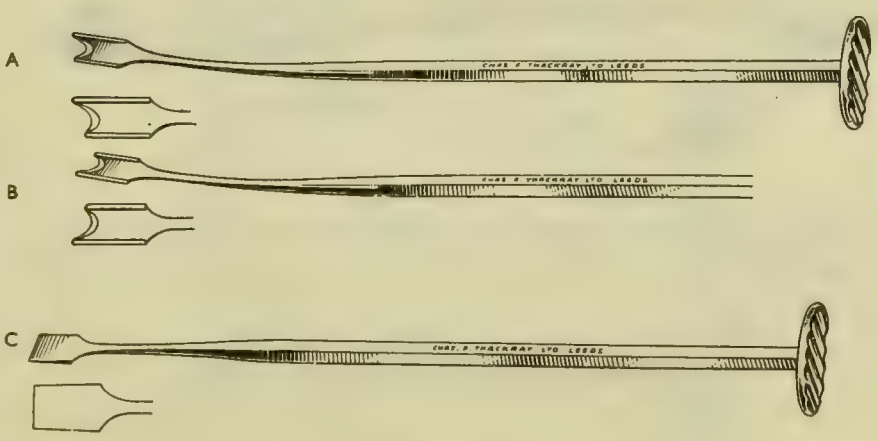
B2645 WOODEN BOX, to hold two knives .. .. each



B2646

B2646 HERZFELD'S CARTILAGE KNIVES, two patterns: cutting-to-left and cutting-to-right, nickel plated .. .. each

B2647 WOODEN BOX, to hold two knives .. .. each

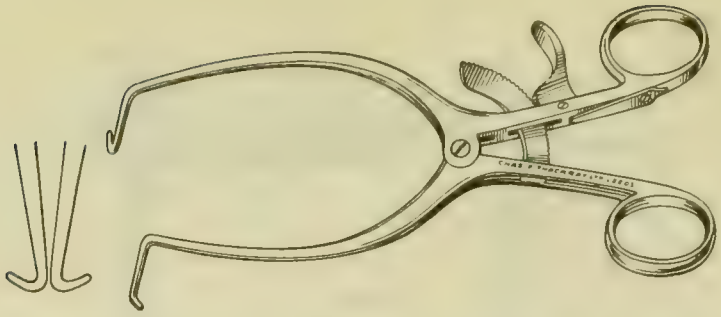


B2648

B2648 SMILLIE'S MENISCECTOMY KNIVES, set of three: A, B and C, stainless steel .. .. set

B2649 Separate Knives: A, B and C .. .. each

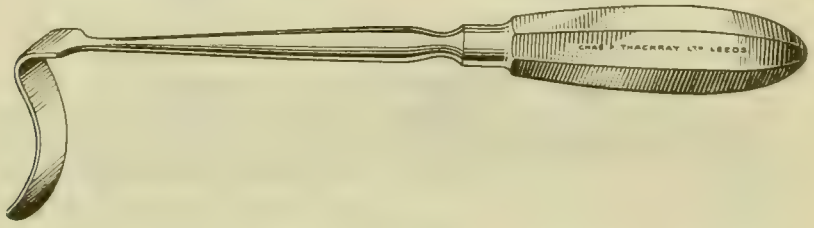
Vide "Injuries of the Knee Joint" by I. S. Smillie, O.B.E., F.R.C.S. (Livingstone 1946).



B2650

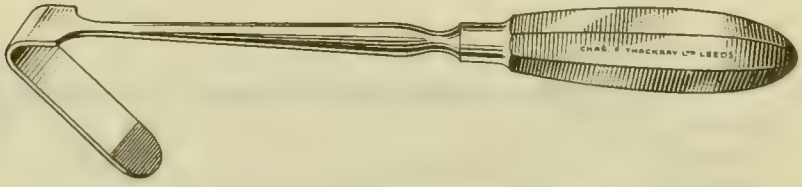
Cat. No.

B2650 JACKSON BURROWS' KNEE JOINT RETRACTOR, self-retaining, with blunt-hook jaws and cam ratchet, stainless steel .. .. .. each



B2651

B2651 JACKSON BURROWS' KNEE JOINT RETRACTOR, curved blade: $\frac{1}{2}$ in. wide, stainless steel, chromium plated handle .. .. each



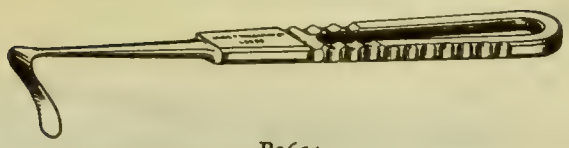
B2652

B2652 JACKSON BURROWS' KNEE JOINT RETRACTOR, angled blade: $\frac{3}{4}$ in. wide, stainless steel, chromium plated handle .. .. .. each



B2653

B2653 CHARNLEY'S KNEE JOINT RETRACTOR, angled blade, slender taper: $\frac{1}{4}$ in. to $\frac{3}{16}$ in., stainless steel, chromium plated handle .. .. each



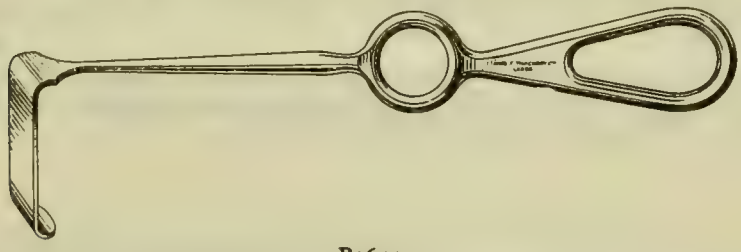
B2654

Cat. No.

B2654 COLLINGWOOD STEWART'S KNEE JOINT RETRACTOR, stainless steel, each

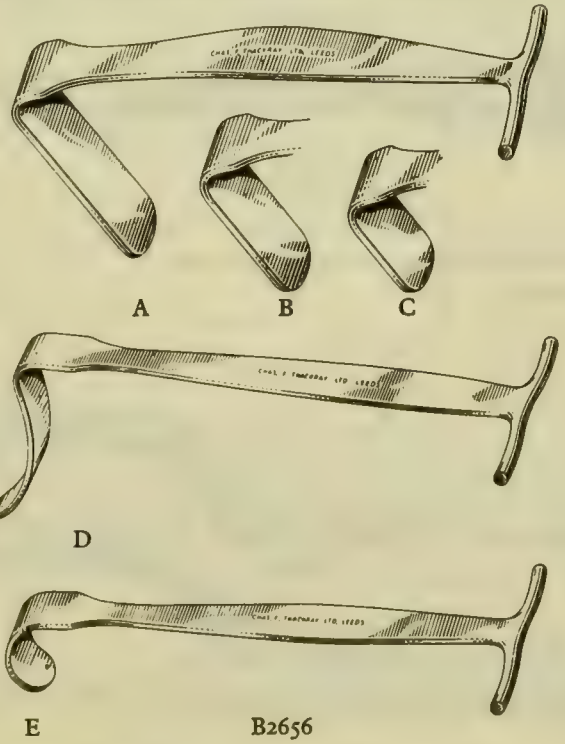
The blade is curved to fit the rim of the joint and has a shoulder with an acute angle which fits lightly against the end of the incision. The bright reflecting blade surface provides additional light when in the joint.

Vide "A New Cartilage Retractor", "B.M.J.", June 30th, 1951.



B2655

B2655 PATON'S or HIGGS' KNEE JOINT RETRACTOR, stainless steel, two sizes of blade: 2 in. deep by $\frac{9}{16}$ in. wide and $1\frac{1}{4}$ in. deep by $\frac{5}{16}$ in. wide .. each

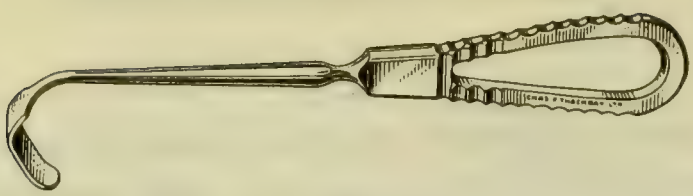


B2656

B2656 SMILLIE'S KNEE JOINT RETRACTORS, set of six: one each A, B, C and D and two E, stainless steel .. .. set

B2657 Separate Retractors: A, B, C, D and E .. .. each

Vide "Injuries of the Knee Joint" by I. S. Smillie, O.B.E., F.R.C.S. (Livingstone 1946).



B2658

Cat. No.

B2658 STAMM'S KNEE JOINT RETRACTOR, stainless steel, two widths of blade: ½ in. and ⅝ in. .. .. each

These retractors are so angled that they are automatically self-containing in the correct direction with a straight pull on the shaft. The surgeon's assistant can thus hold them correctly even though he cannot see directly into the wound.



B2659



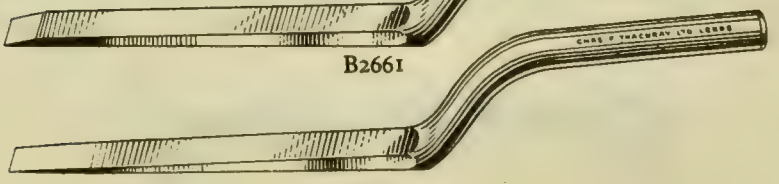
B2660

B2659 SMILLIE'S BONE PUNCH, cranked, stainless steel .. .. each

B2660 Ditto .. straight .. .. each



B2661



B2662

B2661 SMILLIE'S CHISEL, cranked, for knee joint, blade ½ in. wide, stainless steel, each

B2662 Ditto .. Osteotome .. .. each



B2663

Cat. No.

B2663 PLATT'S TENDON TRANSPLANTATION FORCEPS, screw joint, 11 in., stainless steel .. .. each



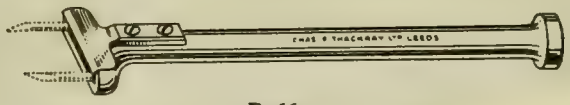
B2664

B2664 PATON'S BURR, for "spike arthrodesis" of the toe, stainless steel, chromium plated handle .. .. each

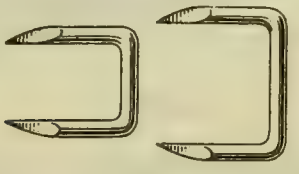
For boring a hole in the base of the distal phalanx to receive the "spiked" end of the proximal phalanx.

Cutters for shaping spike: see page B467.

Small chisels and osteotomes: see pages B472, B474 *and* B476.



B2665



B2666

B2665 CLARK'S STAPLE HOLDER-DRIVER, stainless steel .. .. each

This is a simple and effective instrument without any mechanism: the staple is held by a strip of spring steel. The slot will hold any staple up to $\frac{7}{8}$ in. cross-bar.

B2666 BLOUNT'S EPIPHYSEAL STAPLES, for control of bone growth, †stainless steel, $\frac{3}{32}$ in. diameter wire, two standard sizes: $\frac{7}{8}$ in. cross-bar, $\frac{3}{4}$ in. prongs and $\frac{5}{8}$ in. cross-bar, $\frac{3}{4}$ in. prongs .. .. each

B2667 Ditto .. sizes: $\frac{5}{8}$ in. by $\frac{1}{2}$ in. prongs; $\frac{5}{8}$ in. by $\frac{7}{8}$ in. prongs; $\frac{3}{4}$ in. by $\frac{7}{8}$ in. prongs and $\frac{7}{8}$ in. by 1 in. prongs .. .. each

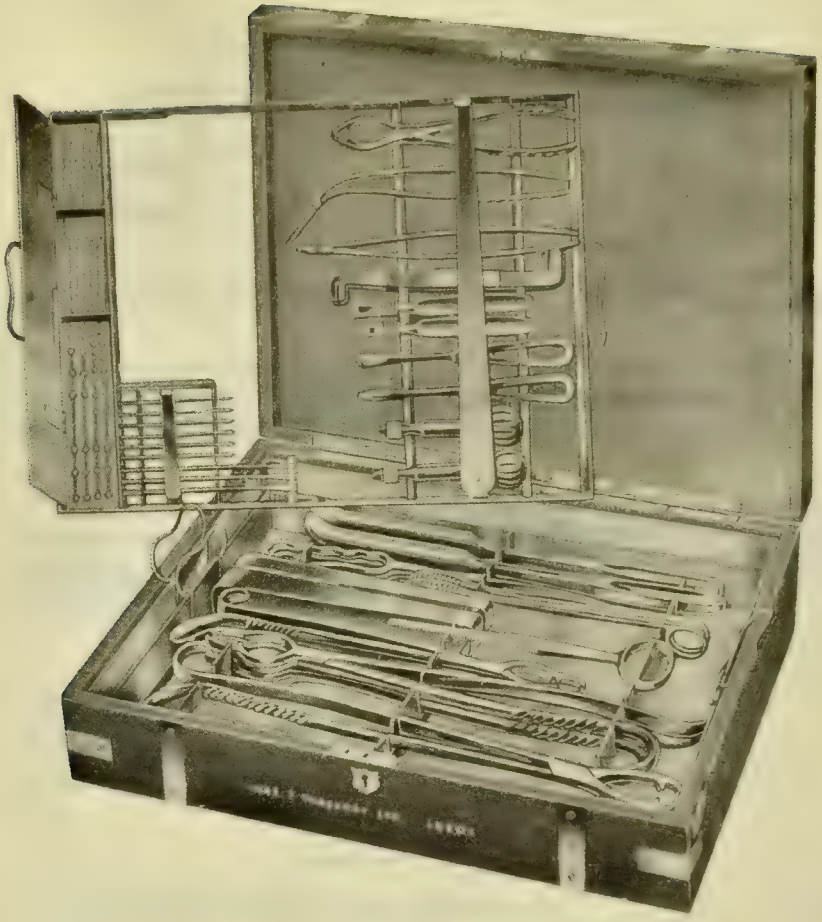


B2668

B2668 STAPLE EXTRACTOR, stainless steel .. .. each

†*Of grade most resistant to corrosion.*

BONE INSTRUMENTS



B2669

Cat. No.

B2669 LANE'S FRACTURE SET, consisting of:—
Two Bone Holding Forceps, 12½ in.
Two .. ditto, 15 in.
One Patella Holding Forceps.
One Lion Forceps, 8 in.
Two Heavy Bone Levers.
Two Light Bone Levers.
Two Bone Levers, serrated.
One Rotary Lever.
Two Rugines.
Two Raspatories.
Set of three Screwdrivers, fitting one handle.
Set of six Awls, fitting one handle.
Two Plate Benders.
One Plate Holding Forceps.
One Screw Holding Forceps.
Two Retractors.
Fitted in two lift-out metal racks contained in brass-bound polished mahogany case fitted with lift-out metal lining .. .. complete

All Instruments of stainless steel.

Screws and Plates *not* included, for choice: see page B502.



B2670

Cat. No.

B2670 KÜNTSCHER'S INTRAMEDULLARY FEMUR NAILS, "cloverleaf" †stainless steel, 8·5 mm. diameter; in thirteen lengths: 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44 cms. .. .. each

B2671A Ditto .. 9·5 mm. diameter .. .. each

B2671B Ditto .. 11 mm. diameter .. .. each

B2671C Ditto .. $\frac{5}{16}$ in. diameter; fourteen lengths: 12 in., 12½ in., 13 in., 13½ in., 14 in., 14½ in., 15 in., 15½ in., 16 in., 16½ in., 17 in., 17½ in., 18 in., 18½ in. .. each

B2671D Ditto .. $\frac{3}{8}$ in. diameter .. .. each

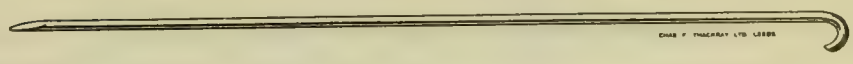
B2671E Ditto .. $\frac{13}{32}$ in. diameter .. .. each

B2671F Ditto .. $\frac{7}{16}$ in. diameter .. .. each

Cloverleaf Femur Nails can be supplied slotted and pointed at both ends for retrograde insertion in same sizes as above.



B2671G-H



B2671J-M

B2671G KÜNTSCHER'S "V"-NAILS, †stainless steel, for humerus, radius and tibia, 6 mm. diameter, 14, 16, 18, 20, 22, 25, 26, 27, 28, 30, 32, 34 cms. .. each

B2671H Ditto .. 8 mm. diameter, 14, 16, 18, 20, 22, 25, 26, 27, 28, 30, 32, 34 cms., each

B2671J ROUND SECTION INTRAMEDULLARY NAILS, †stainless steel, $\frac{3}{32}$ in. diameter, 1 in., 1¼ in., 1½ in., 1¾ in., 2 in., 2¼ in., 2½ in., 2¾ in., 3 in., 3¼ in., 3½ in., 3¾ in., 4 in. .. .. each

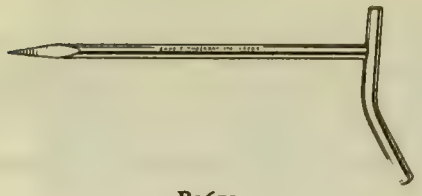
B2671K Ditto .. $\frac{1}{8}$ in. diameter, 4 in., 4½ in., 5 in., 5½ in., 6 in., 6½ in., 7 in., 7½ in., 8 in., 8½ in., 9 in., 9½ in., 10 in... .. .. each

B2671L Ditto .. $\frac{3}{16}$ in. diameter, 8 in., 8¾ in., 9½ in., 10¼ in., 11 in., 11¾ in., 12½ in., 13¼ in., 14 in. .. .. each

B2671M Ditto .. ¼ in. diameter, 11 in., 11¾ in., 12½ in., 13¼ in., 14 in., 14¾ in., 15½ in., 16¼ in., 17 in. .. .. each

†*Made of Austenitic Stainless Steel, British Standard Specification* EN58J.

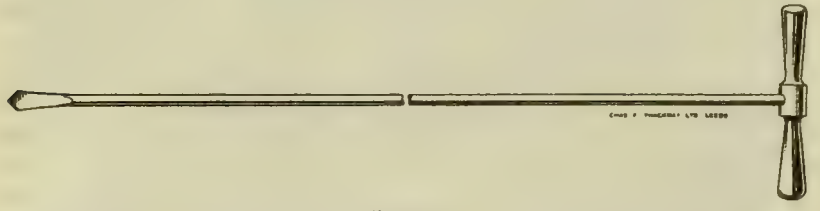
BONE INSTRUMENTS



B2672

Cat. No.

B2672 KÜNTSCHER'S CORTEX REAMER, stainless steel .. .. each



B2672A

B2672A KÜNTSCHER'S INTRAMEDULLARY REAMER, stainless steel, 3 sizes diameter, 8·5 mm. ($\frac{5}{16}$ in.), 9·5 mm. ($\frac{3}{8}$ in.), 11 mm. ($\frac{7}{16}$ in.) .. .. each



B2672B

B2672B DRILLS, for Intramedullary Nails, stainless steel, 10 in. long, 3 sizes diameter, 8·5 mm. ($\frac{5}{16}$ in.), 9·5 mm. ($\frac{3}{8}$ in.), 11 mm. ($\frac{7}{16}$ in.) .. .. .. each



B2673

B2673 KÜNTSCHER'S GUIDE PIN, stainless steel, 35 and 45 cm. long for 8·5 mm. ($\frac{5}{16}$ in.) diameter Femur Nails .. .. each

B2674 Ditto .. for 9·5 mm. ($\frac{3}{8}$ in.) diameter Femur Nails.. .. .. each

B2674A Ditto .. for 11 mm. ($\frac{7}{16}$ in.) diameter Femur Nails.. .. .. each



B2675

Cat. No.

B2675 KÜNTSCHER'S IMPACTING SLEEVE, with three inserts for "Cloverleaf" Nails and one insert for V-shape Nails, stainless steel .. .. each

B2675A SPARE INSERT for "Cloverleaf" Nails, stainless steel .. .. each

B2675B Ditto .. for V-shape Nails .. .. each



B2676

B2676 KÜNTSCHER'S NAIL EXTRACTOR, with 3 mm. hook to fit femur nails, and 2 mm. hook for 6 mm. nails only, stainless steel. .. .. .. each

B2676A SPARE HOOKS, 3 mm. for femur nails, stainless steel .. .. each

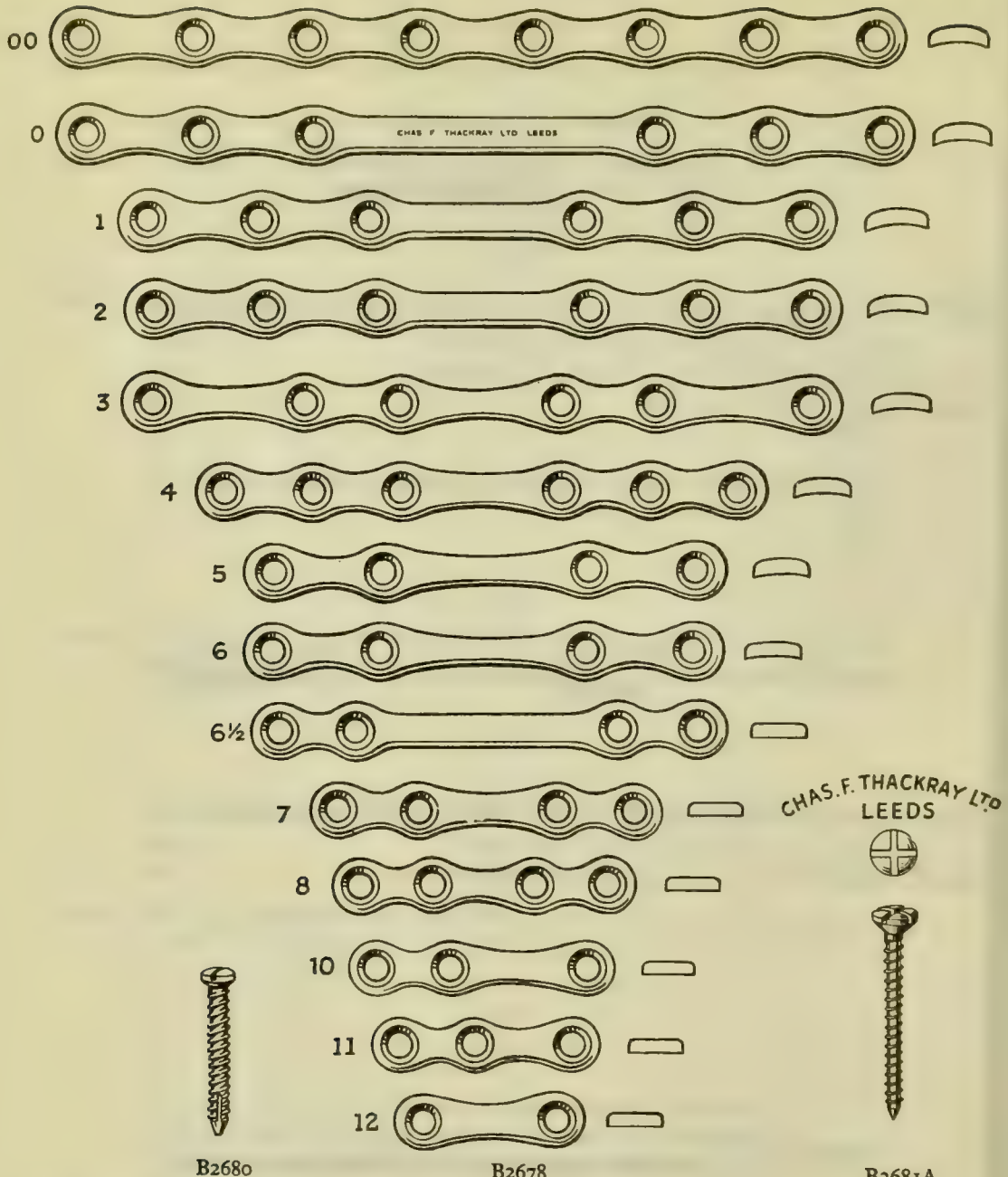


B2676C

B2676C EXTRACTOR, Thomas' type, stainless steel .. .. .. each

*B2676D BENDING IRON for 6 mm. and 8 mm. diameter Küntscher Nails, stainless steel each

**Not illustrated.*



B2680 B2678 B2681A

Cat. No.

B2678 SHERMAN'S BONE PLATES, †stainless steel, fourteen sizes: 00 to 12, each

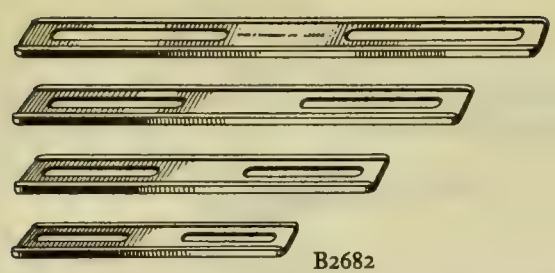
B2679 Ditto .. ‡Vitallium .. .. each

B2680 SHERMAN'S BONE SCREWS, coarse thread, $\frac{9}{64}$ in. diameter, †stainless steel, sizes $\frac{3}{8}$ in., $\frac{1}{2}$ in., $\frac{5}{8}$ in., $\frac{3}{4}$ in., $\frac{7}{8}$ in., 1 in., $1\frac{1}{8}$ in., $1\frac{1}{4}$ in., $1\frac{3}{8}$ in., $1\frac{1}{2}$ in., $1\frac{5}{8}$ in., $1\frac{3}{4}$ in., 2 in., $2\frac{1}{4}$ in., $2\frac{1}{2}$ in., $2\frac{3}{4}$ in., and 3 in. lengths of shaft .. .. .. each

B2681 Ditto .. ‡Vitallium .. .. each

B2681A R.N.O.H. PATTERN SCREWS, †stainless steel, with cross slotted heads, sizes: $\frac{1}{2}$ in., $\frac{5}{8}$ in., $\frac{3}{4}$ in., $\frac{7}{8}$ in., 1 in., $1\frac{1}{8}$ in., $1\frac{1}{4}$ in., $1\frac{3}{8}$ in., $1\frac{1}{2}$ in., $1\frac{5}{8}$ in., $1\frac{3}{4}$ in. and 2 in., each

†*Made of Austenitic Stainless Steel, British Standard Specification* EN58J.
‡*An alloy, approximately: cobalt* 65%, *chromium* 30% *and molybdenum* 5%.

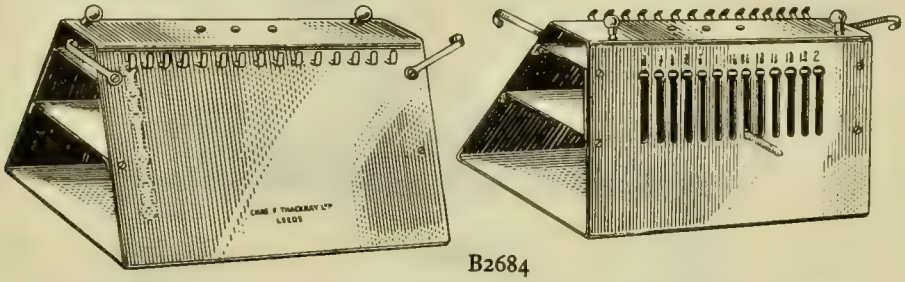


B2682

Cat. No.

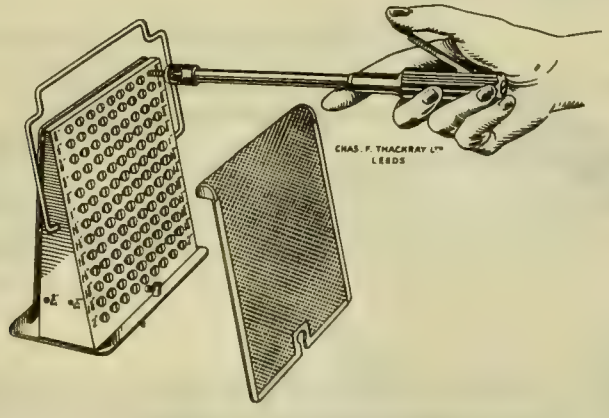
B2682 EGGER'S BONE PLATES, with longitudinal slots, †stainless steel, four sizes, 3 in., 4 in., 5 in. and 6 in. long .. .. each

B2683 Ditto .. ‡Vitallium .. .. each



B2684

B2684 HOLDER for bone screws and plates, with lifting hooks on sides, stainless steel .. .. each



B2685

Regd. Design No. 873084

Williams' Screwdriver see Fig. B2703 AD848.

B2685 WILLIAMS' HOLDER, for bone screws, improved model with thirteen rows of nine holes, for screw sizes $\frac{3}{8}$ in. to 2 in.; holes in sides for gauging $\frac{7}{64}$ in. and $\frac{9}{64}$ in. drill points; aluminium, with stainless steel base, back and handle. Complete with perforated metal cover to secure screws during sterilization, *without screws*, each *The screw-heads protrude to facilitate quick removal with a Williams' Screwdriver; screws can be loaded straight from the holder ready for immediate use.*

NOTE.—For lifting the holder from the sterilizer, a "Dundee" pattern Sterilizer Forceps (heavy type) Cat. No. G708, *page* G107, *is recommended.*

†*Made of Austenitic Stainless Steel. British Standard Specification* EN58J.
‡*An alloy, approximately: cobalt* 65%, *chromium* 30% *and molybdenum* 5%.

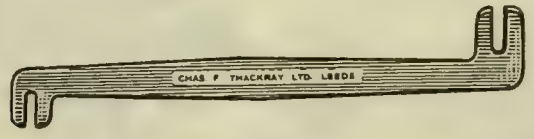


B2686

Cat. No.

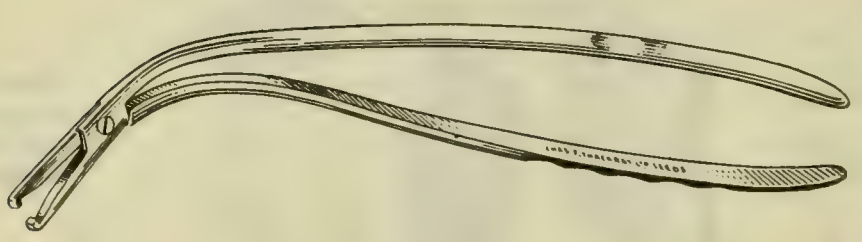
B2686 SCREW DEPTH GAUGE, stainless steel .. .. each

Inserted through a drilled hole, the tip is hooked on the distal cortex and the stop advanced to the bone plate. The instrument is withdrawn, showing length of screw required.



B2687

B2687 LANE'S PLATE BENDER (two required), stainless steel .. .. each



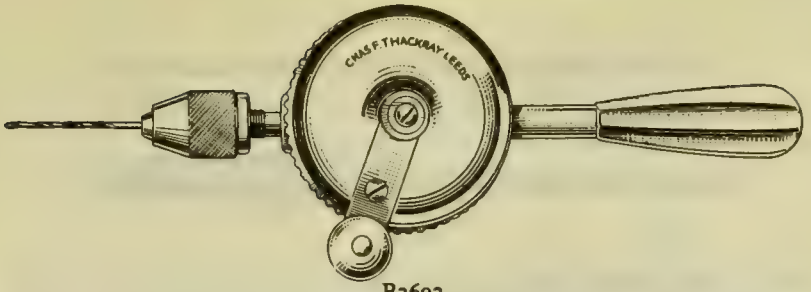
B2688

B2688 LANE'S PLATE HOLDING FORCEPS, screw joint, 9½ in., stainless steel, each



B2689

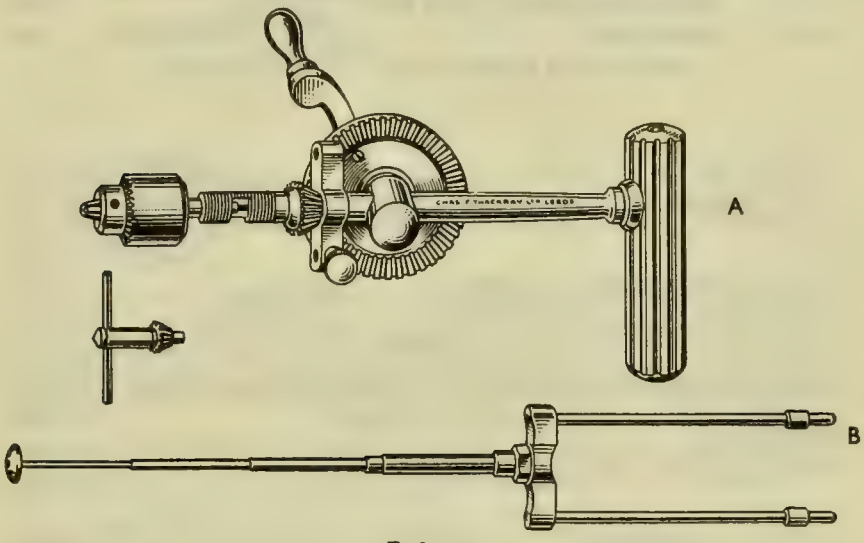
B2689 LANE'S SCREW HOLDING FORCEPS, screw joint, 9½ in. stainless steel, each



B2692

Cat. No.

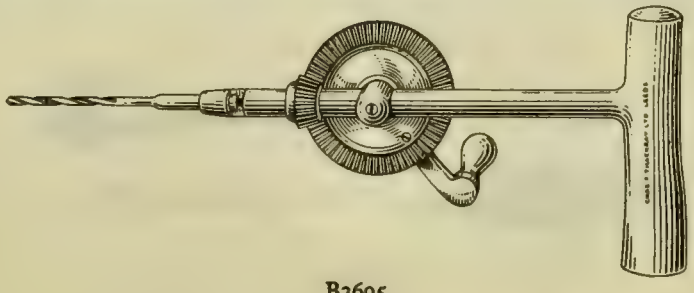
B2692 LANE'S DRILL, chromium plated, with three Morse Type Twist Drills (one each: $\frac{5}{64}$ in., $\frac{3}{32}$ in. and $\frac{1}{8}$ in.), Fig. B2696 .. .. .. complete



B2693

*B2693 McKELVEY'S DRILL, consisting of: Drill Stock (A) fitted with Colt's Handle and Jacobs' Non-slip Chuck; and Telescopic Attachment (B), chromium plated, complete
This drill can be used for either drilling with Morse Type Drills or introducing Kirschner's Wires; the Jacobs' Chuck can be detached and drills with sectioned mounts fitted. The handle can be unscrewed and replaced end-on for vertical drilling.

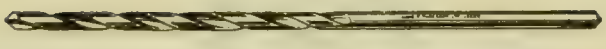
*B2694 DRILL STOCK (A) only, with Jacobs' Chuck .. .. .. each



B2695

B2695 SWEDISH PATTERN DRILL, chromium plated, with three Morse Type Twist Drills (one each: $\frac{5}{64}$ in., $\frac{3}{32}$ in. and $\frac{1}{8}$ in.) on sectioned mounts, Fig. B2697, complete

**Now available with stainless steel Jacobs' Chuck*



B2696



B2697

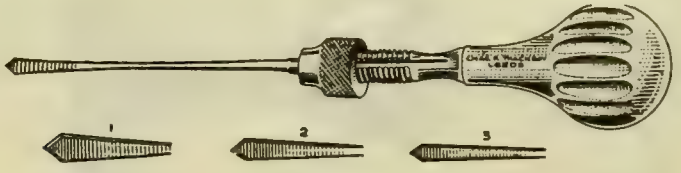
B2696 MORSE TYPE TWIST DRILLS, nickel plated, six sizes: $\frac{5}{64}$ in., $\frac{3}{32}$ in., $\frac{7}{64}$ in., $\frac{1}{8}$ in., $\frac{9}{64}$ in. and $\frac{5}{32}$ in. .. .. each

B2696A Ditto .. stainless steel.. .. .. each

*B2697 Ditto .. with sectioned mounts, nickel plated .. .. .. each

*B2697A Ditto .. stainless steel.. .. .. each

**Please state if required for Cat. No.* B2693 *or* B2695.



B2698

B2698 LANE'S BONE AWL, consisting of: one chromium plated handle and three detachable stainless steel awls: $\frac{3}{32}$ in., $\frac{1}{8}$ in. and $\frac{5}{32}$ in. .. .. each

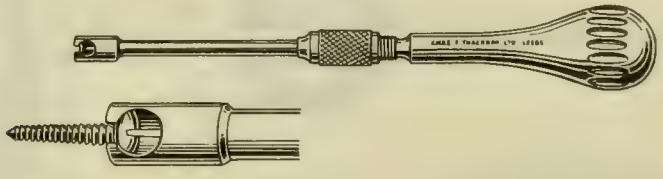
B2699 HANDLE only .. .. each

B2700 AWLS only, $\frac{3}{32}$ in. $\frac{1}{8}$ in., and $\frac{5}{32}$ in. .. .. each



B2701

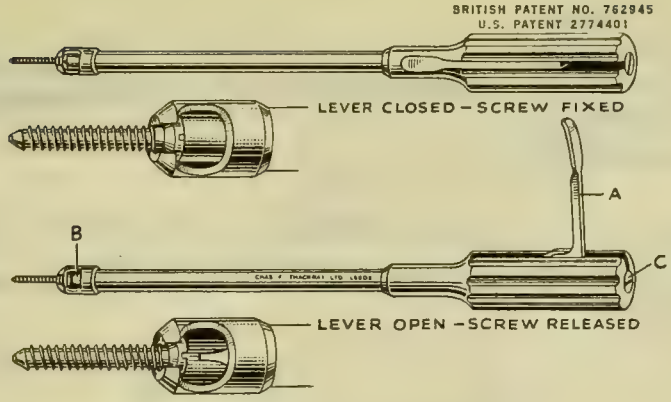
B2701 BONE AWL, stainless steel, chromium plated handle, four sizes: $\frac{5}{64}$ in., $\frac{3}{32}$ in., $\frac{1}{8}$ in. and $\frac{5}{32}$ in. .. .. each



B2702

B2702 MULLER-BISHOP'S SCREWDRIVER, stainless steel, chromium-plated sheath and handle .. .. each

This is a simple type of screw-holding driver without any internal mechanism. With the sheath removed it can be used as an orthodox screwdriver for driving the screw fully home.



B2703

Cat. No.

†B2703 WILLIAMS' IMPROVED AUTOMATIC SPRING-LOADED SCREW-DRIVER (Patented), fitted with quick-action recessed lever in handle for fixing and releasing screw, stainless steel, anodised aluminium handle, in card box with full instructions .. .. each

This new improved instrument greatly facilitates the fixing of screws during surgical operations. It is an adaptation of an existing accepted pattern in which the screw fixing device at the base of the handle has been replaced by a *quick-action lever recessed in the handle.* It is merely necessary to close or open the lever (A) to fix or release a screw from the shaped recess (B) in the end of the tubular shaft—a matter of a mere second or so. The lever, being centrally placed in relation to the screw-slot, is suitable for both right-and left-handed operators.

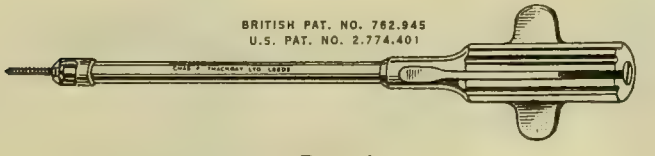
The upper illustration shows the screwdriver ready for use: the spring loaded driving shaft has been pushed forward to engage the slot of the screw head; the lower illustration shows the lever (A) open and the screw head disengaged.

All the usual standard screws such as Sherman's or Lane's patterns can be used with this instrument (up to $\frac{5}{32}$ in. external diameter of thread, with head diameter of $\frac{5}{16}$ in.) as the shaped tubular shaft at the distal end has been made to suit a wide variation of shapes of screw head.

After the screw has been inserted to the required depth and the screwdriver removed from the screw head, it is possible to drive the screw fully home with the same instrument by merely closing the lever (A); the end of the tubular shaft is concave in shape externally to accommodate the top of the screw head.

A special feature is the *adjusting screw* (C) in the base of the handle. This permits the lever (A) to be set to give an absolutely firm fixation of the screw head, and once set it is not necessary to alter it unless a screw with a larger or smaller head is required.

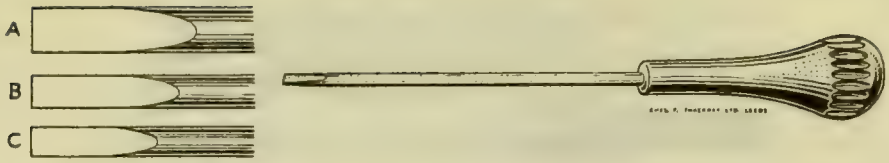
†*Vide "The Lancet," June* 15, 1957, *p.*1225.



B2703A

B2703A WILLIAMS' AUTOMATIC SCREWDRIVER (Patented), fitted with McKee's winged-handle, stainless steel, anodised aluminium handle .. .. each

The wings on handle allow more torsion to be applied when large screws are to be inserted.



B2704

Cat. No.

B2704 LANE'S SCREWDRIVER, stainless steel, chromium plated handle, three sizes of end: A, B and C .. .. each



B2705 B2706 B2707

B2705 SUTURE WIRE, annealed stainless steel, single strand, sizes: 18 to 47 S.W.G., 1 oz. on a reel .. ..

B2706 Ditto .. Twisted, sizes: 18 to 40 S.W.G. (overall diameter), 12 ft. on reels

B2707 Ditto .. Braided, sizes: 18 to 40 S.W.G. (overall diameter), 12 ft. on reels

S.W.G.=Standard Wire Gauge.

TABLE FOR STAINLESS STEEL SUTURE WIRE

S.W.G. Over-all	Overall Diameter		B2705 Single Per Reel	B2706 Twisted Per Reel	B2707 Braided Per Reel	S.W.G. Over-all	Diameter Overall		B2705 Single Per Reel	B2706 Twisted Per Reel	B2707 Braided Per Reel
	ins.	mm.	s. d.	s. d.	s. d.		ins.	mm.	s. d.	s. d.	s. d.
18	·048	1·2				34	·0092	·233			
20	·036	·9				35	·0084	·213			
21	·032	·813				36	·0076	·193			
22	·028	·711				37	·0068	·172			
23	·024	·610				38	·0060	·152			
24	·022	·559				39	·0052	·132			
25	·020	·508				40	·0048	·121			
26	·018	·457				41	·0044	·112		*not made*	*not made*
27	·0164	·416				42	·0040	·101		"	"
28	·0148	·375				43	·0036	·091		"	"
29	·0136	·345				44	·0032	·081		"	"
30	·0124	·315				45	·0028	·071		"	"
31	·0116	·294				46	·0024	·061		"	"
32	·0108	·274				47	·0020	·050		"	"
33	·0100	·254									

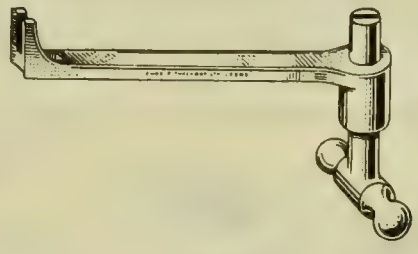


B2708

Cat. No.

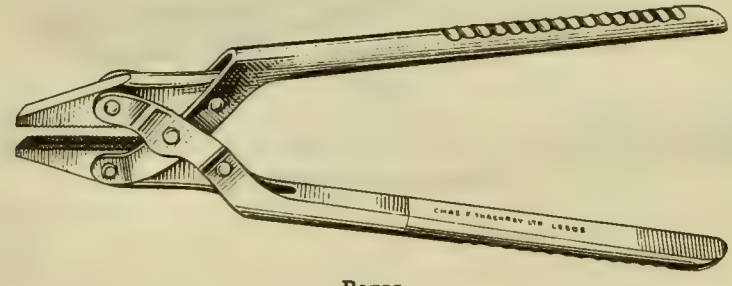
B2708 SINCLAIR'S WIRE GUIDE, curved-to-left for right hand use, stainless steel, each

B2709 Ditto .. curved-to-right for left hand use .. .. .. each



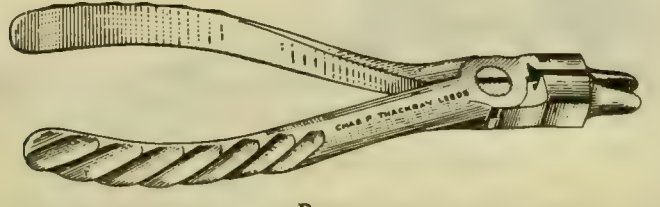
B2710

B2710 HEY GROVES' WIRE TIGHTENER-TWISTER, stainless steel .. each



B2711

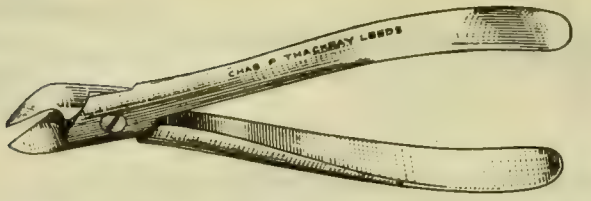
B2711 SINCLAIR'S PLIERS, for wire, 8 in., stainless steel .. .. each



B2712

B2712 WIRE CUTTERS-PLIERS, for annealed wire, 5½ in., nickel-plated .. each

Unsuitable for hardened steel wire.

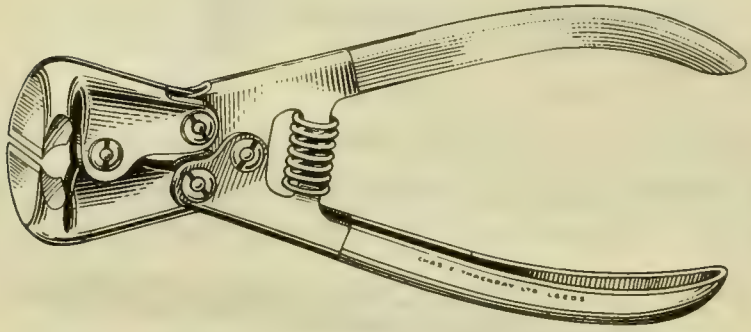


B2713

Cat. No.

B2713 WIRE CUTTERS, for annealed wire, 6½ in., nickel plated .. each

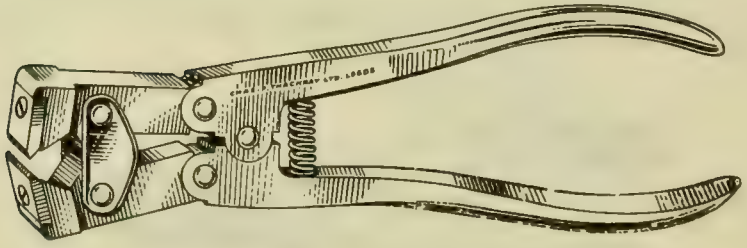
Unsuitable for hardened steel wire.



B2714

B2714 WIRE CUTTERS, strong, for guide wires, etc., steel, 8 in., nickel plated, each

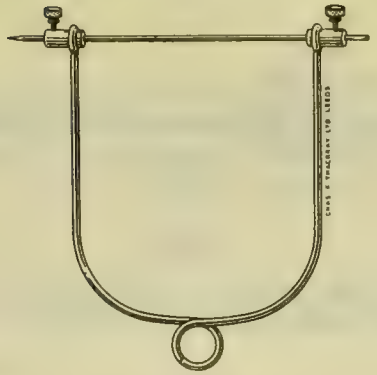
Will not cut Steinmann's Pins.



B2715

B2715 WIRE CUTTERS, strong, for guide wires, etc., solid forged, with replaceable blades, 9½ in., nickel plated .. .. each

Will not cut Steinmann's Pins

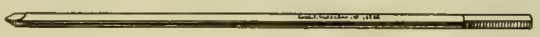


B2716

Cat. No.

B2716 BÖHLER'S EXTENSION STIRRUP, with swivel collars, large size: 4½ in. wide (inner measurement), stainless steel, complete with †stainless steel pin, each

B2717 Ditto .. small size: 3⅜ in. (inner measurement) .. .. .. each

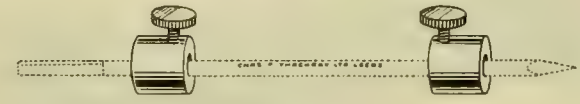


B2718

B2718 STEINMANN'S PINS, for large size Böhler's Stirrups, trocar points, size: 8 in. by 4 mm., †stainless steel.. .. .. each

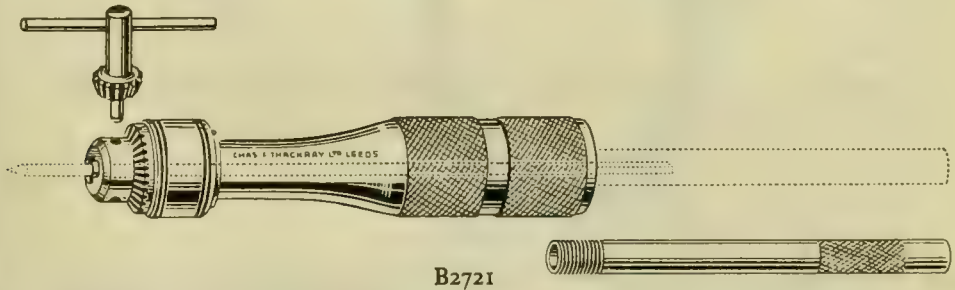
B2719 Ditto .. for small size Böhler's Stirrups size: 6 in. by 4 mm. .. each

Other sizes of pins to order.



B2720

B2720 TRANSFIXION PIN MOUNTS, for use with 4 mm. diameter pins, stainless steel .. .. per pair



B2721

B2721 EXTRACTOR AND DRIVER, for Steinmann's Pins, with Jacobs' Non-slip Chuck, complete with extension tube; handle anodised aluminium .. each

B2721A Ditto .. stainless steel throughout .. .. each

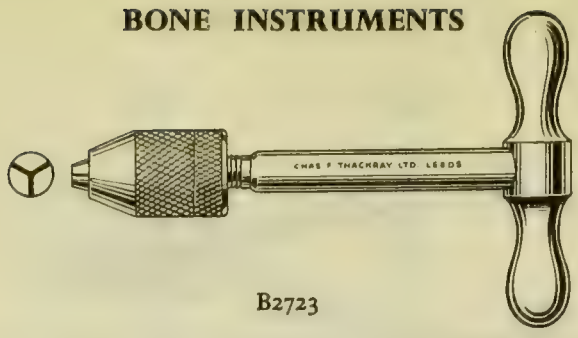
B2722 Ditto .. without extension tube, handle anodised aluminium .. each

B2722A Ditto .. stainless steel throughout .. .. each

The extension tube is used for impaction to avoid damage to pin or handle. The Jacobs' Chuck ensures a firm grip on the pin for extraction.

†Made of a special grade of Austenitic Stainless Steel to minimise risk of breakage, and with trocar point to facilitate insertion.

BONE INSTRUMENTS

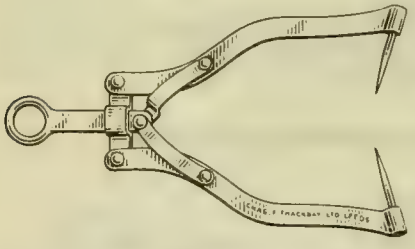


B2723

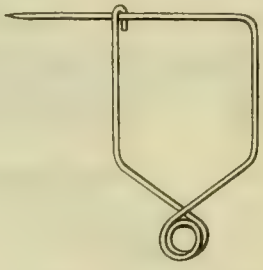
Cat. No.

B2723 HANDLE, chromium plated, with chuck, to hold Steinmann's Pins .. each

*†B2723A Ditto .. with Jacobs' non-slip chuck, complete with key .. .. each



B2724

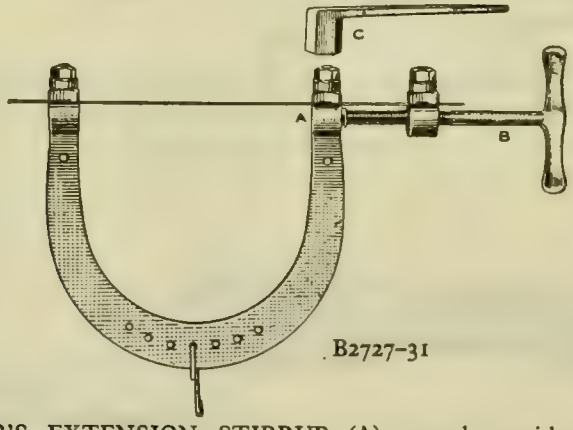


B2726

B2724 BÖHLER'S EXTENSION STIRRUP, "ice-tong" pattern, large size, with detachable pins, stainless steel .. .. each

B2725 Ditto .. small size for os calcis .. .. each

B2726 BROCK'S FINGER EXTENSION PIN, stainless steel, three sizes: $\frac{7}{8}$ in., 1 in. and $1\frac{1}{8}$ in. internal width .. .. each



B2727–31

B2727 KIRSCHNER'S EXTENSION STIRRUP (A), complete with two hooks, stainless steel, four sizes: 7 cm., 9 cm., 13 cm., and 15 cm. wide (inner measurements), each

B2728 WIRE STRAINER (B), stainless steel .. .. each

B2729 KEY (C), stainless steel .. .. each

B2730 SPARE HOOKS, stainless steel .. .. each

B2731 KIRSCHNER'S WIRES, stainless steel, 11 in., sizes: 0·8 mm., 1·0 mm., 1·25 mm. and 1·5 mm. diameter .. .. doz.

Drill stocks for wires: page B505.

**Not illustrated* *†Now available with stainless steel Jacobs' Chuck*



B2732

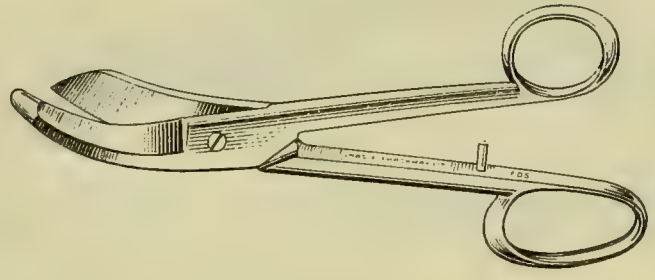
Cat. No.

B2732 ESMARCH'S PLASTER KNIFE, solid forged, 7¾ in., nickel plated .. each



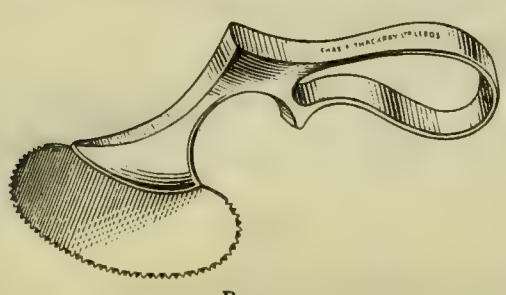
B2733

B2733 PLASTER KNIFE, with wooden handle .. .. each



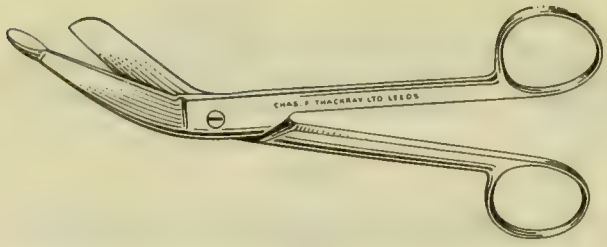
B2734

B2734 BÖHLER'S PLASTER SCISSORS, 10¾ in., stainless steel .. .. each



B2735

B2735 ENGEL'S PLASTER SAW, stainless steel, chromium plated handle .. each



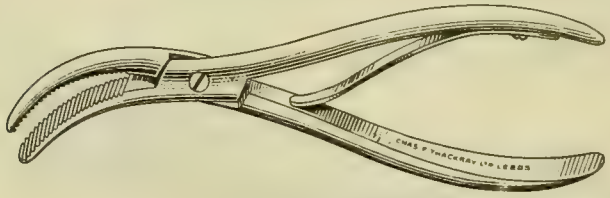
B2736

Cat. No.

B2736 LISTER'S BANDAGE SCISSORS, angled laterally, with flattened probe-end on lower blade, 6 in., stainless steel .. .. each

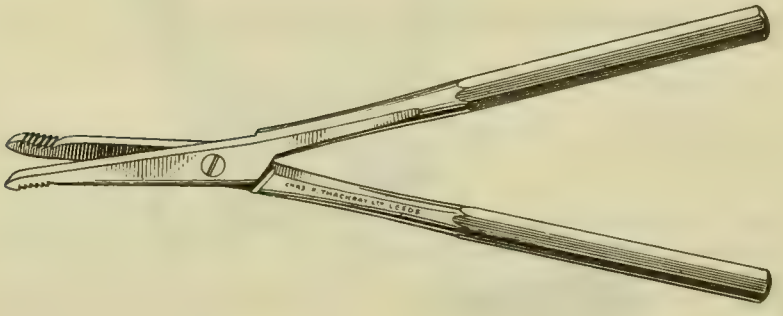
*B2736A Ditto .. 7 in. .. .. each

*B2738 Ditto .. 10 in. .. .. each



B2739

B2739 BÖHLER'S PLASTER BENDER, with spring, 10 in., stainless steel .. each

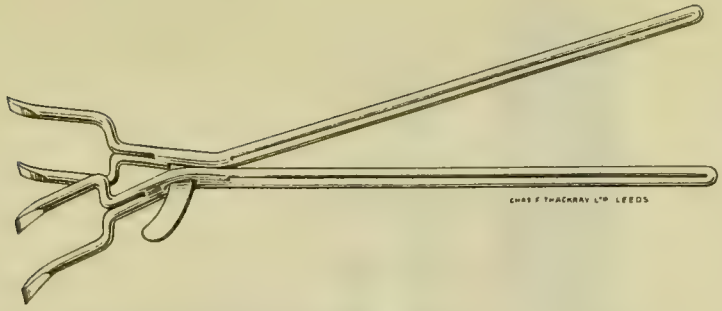


B2740

B2740 DAW'S PLASTER SPREADER, 17 in., stainless steel .. .. each

A robust instrument, solid forged, with serrated jaws to ensure a firm grip on the plaster.

**Not illustrated*

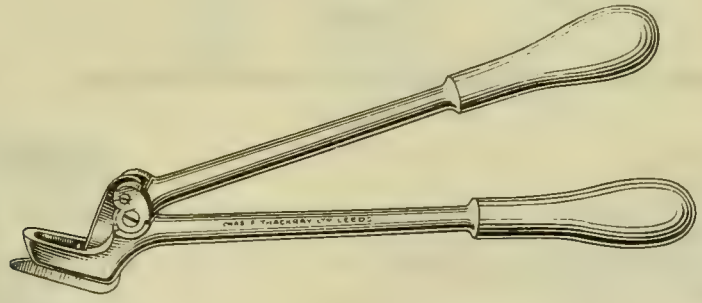


B2741

Cat. No.

B2741 ERIC LLOYD'S PLASTER SPREADERS, with two fork-blades, galvanised, each

The levers are introduced one at a time and linked for spreading.

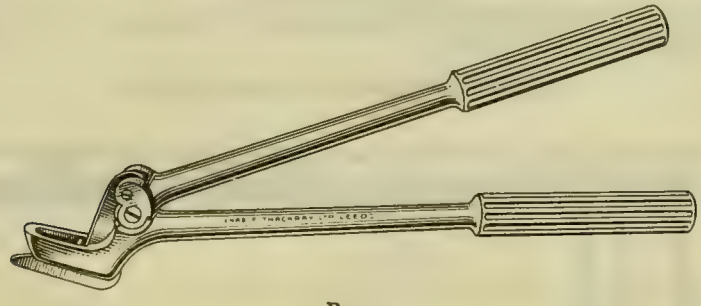


B2742

B2742 SWEDISH PATTERN (LORENZ') PLASTER SHEARS, 13 in., nickel plated, each

B2743 Ditto .. 15 in. .. .. each

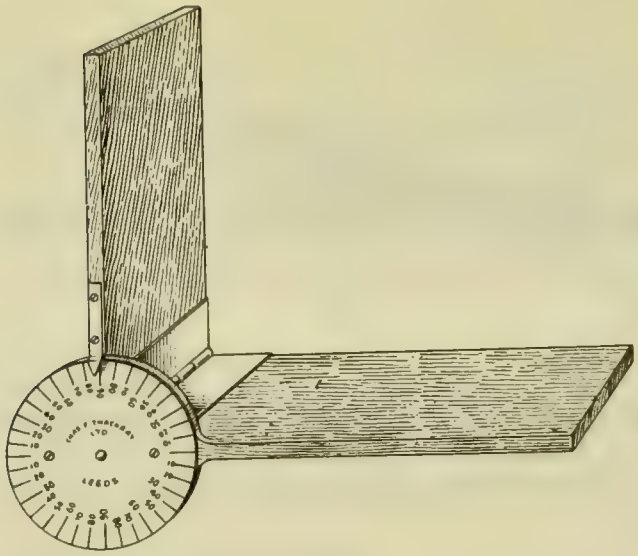
B2744 Ditto .. 18 in. .. .. each



B2745

B2745 SWEDISH PATTERN PLASTER SHEARS, with fluted handles, 15 in., stainless steel . .. . each

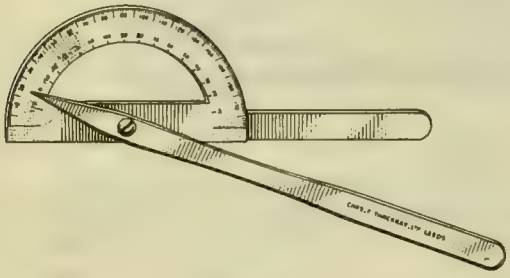
BONE INSTRUMENTS



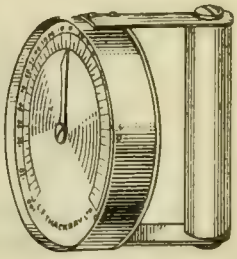
B2746

Cat. No.

B2746 GUTHRIE SMITH'S GONIOMETER, with wooden folding frame .. each



B2747

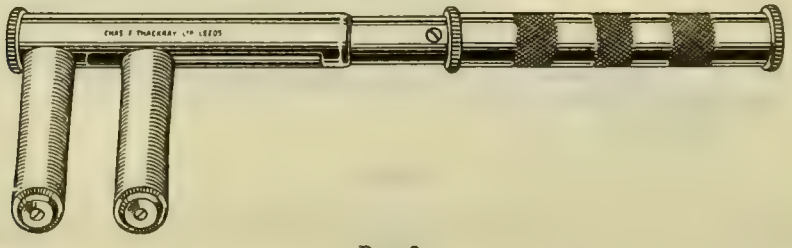


B2747A

B2747 SIMPLE PATTERN GONIOMETER, chromium plated .. .. each

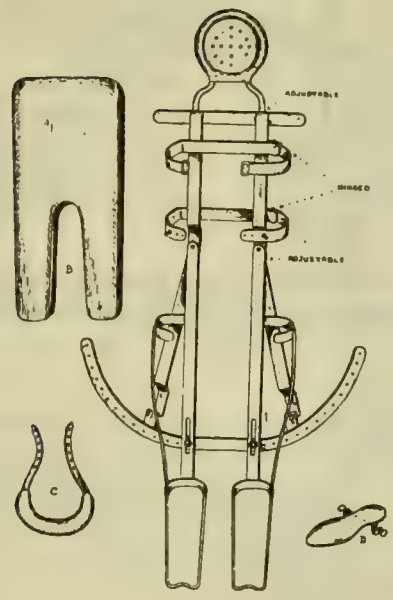
B2747A PATRICK'S GONIOMETER, for measurement of supination and pronation, with dial cover, chromium plated .. .. each

Vide "B.M.J." August 18th, 1944, page 246.



B2748

B2748 THOMAS' TALIPES WRENCH, nickel plated, with rubber covered arms, each



B2749

Cat. No.

B2749 BODY ABDUCTION FRAME, adults' size, with hinged chest and waistbands, leather covered body mattress (B), two leather covered perineal supports (C) to each frame, adjustable head support, two adjustable foot supports (D) and chest strap .. .. complete

B2749A Ditto .. children's size .. .. complete

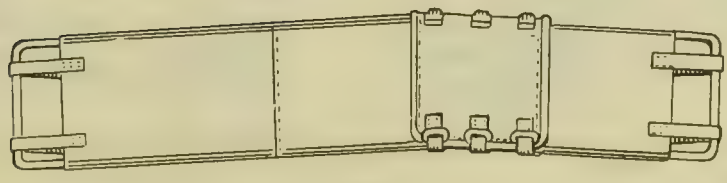
Frame is adjustable for length and wide range of abduction. Measurements required—

Length: axilla to perineum.

Length: axilla to ankle.

Circumference: chest, waist, thigh and ankle.

See also fig. B2796



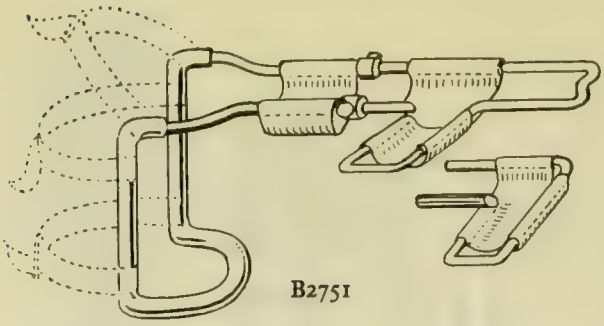
B2750

B2750 BRADFORD FRAME, tubular steel, with canvas support and chest band each

For maintaining patient in hyperextension position.

BONE INSTRUMENTS

SPLINTS, ETC.

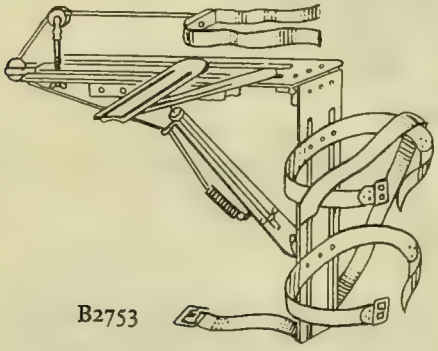


B2751

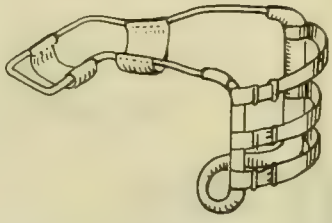
Cat. No.

B2751 BURROWS' ARM ABDUCTION SPLINT, duralumin, for either arm, adjustable in length, padded, with straps, three sizes : small, medium and large .. each

B2752 Ditto .. but without skeletal traction piece .. .. .. each



B2753

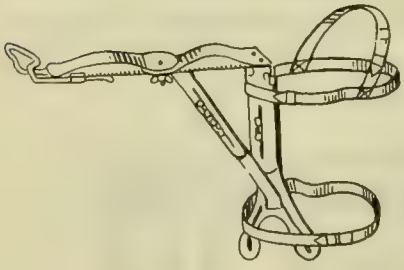


B2755

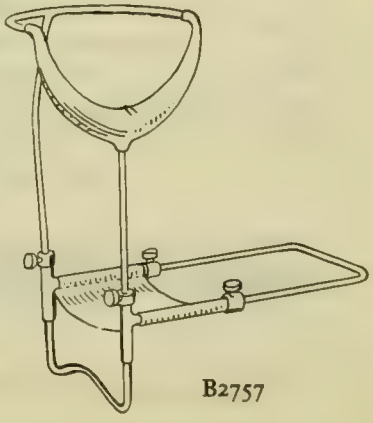
B2753 BÖHLER'S ARM ABDUCTION SPLINT, duralumin, with straps, two patterns: right and left .. .. each

B2754 Ditto .. padded .. .. each

B2755 LITTLER JONES' ARM ABDUCTION SPLINT, duralumin, padded, with straps, two patterns: right and left .. .. each



B2756



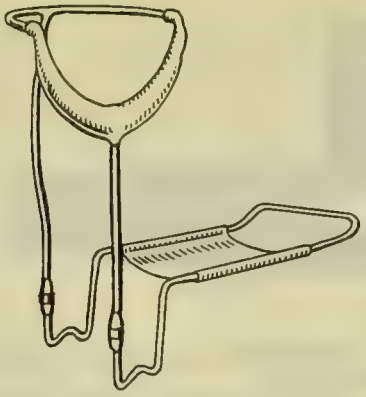
B2757

B2756 ALLAN TODD'S ARM ABDUCTION SPLINT, duralumin, for either arm, padded, with straps, two sizes: small and large .. .. .. each

B2757 UNIVERSAL HUMERUS SPLINT, duralumin, padded, for either arm, two sizes: small and large .. .. each



B2758

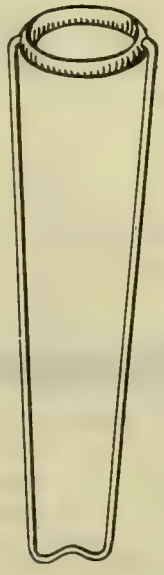


B2759

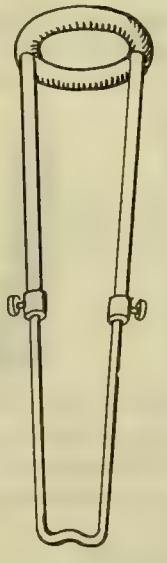
Cat. No.

B2758 ROBERT JONES' HUMERUS SPLINT, duralumin, padded, two patterns: right and left, three sizes: small, medium and large .. .. .. each

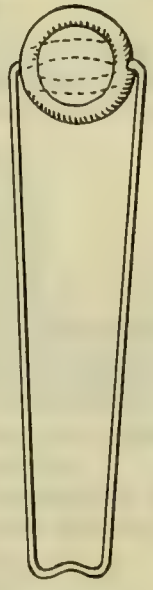
B2759 ROBERT JONES' HUMERUS SPLINT, Zachary Cope's modification, duralumin, padded, for either arm, three sizes: small, medium and large .. each



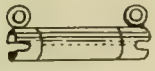
B2760



B2761



B2762



B2764

B2760 — B2762

Size		Ring circumf.	Length
1	=	15 in.	24 in.
2	=	16 in.	26 in.
3	=	17 in.	28 in.
4	=	18 in.	30 in.
5	=	19 in.	32 in.
6	=	20 in.	34 in.

B2760 ROBERT JONES' ARM SPLINT, fixed ring, padded, six sizes .. each

B2761 Ditto .. telescopic .. .. each

B2762 Ditto .. swivel ring .. .. each

*B2763 Ditto .. swivel ring and telescopic (ring sizes: see table above) .. each

B2764 HAND GRIP for Robert Jones' Splints .. .. each

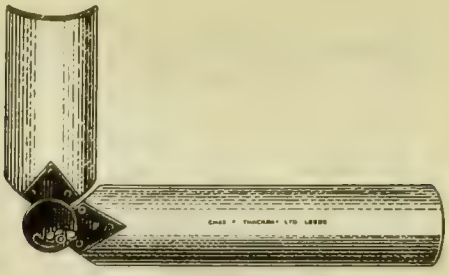
**Not illustrated*

BONE INSTRUMENTS

SPLINTS, ETC.



B2765

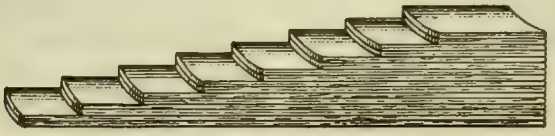


B2766

Cat. No.

B2765 ARM SPLINT, wood, angul ', hollow, with hole for elbow, set of six (two each three sizes) .. .. per set

B2766 ARM SPLINT, wood, angular, jointed to fix at any angle, with set-screw, set of three sizes .. . . per set



B2767

B2767 ARM SPLINTS, wood, in sets of eight pairs .. .. .. per set



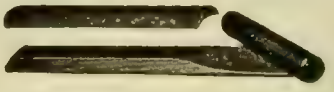
B2768



B2769

B2768 ARM SPLINT, wood, plain, angular, set of three sizes .. .. per set

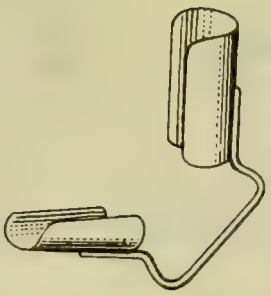
B2769 ARM SPLINT, wood, hollowed anterior, set of three sizes .. .. per set



B2770

B2770 CARR'S RADIUS SPLINT, wood, two patterns: right and left, three sizes each

B2771 Ditto .. in sets of three each right and left .. .. .. per set



B2772



B2773

Cat. No.

B2772 ROBERT JONES' ELBOW SPLINT, duralumin, unpadded, three sizes: small, medium and large .. .. each

B2773 ROBERT JONES' Wrist Splint, "cock-up", aluminium, three sizes: small, medium and large .. .. each



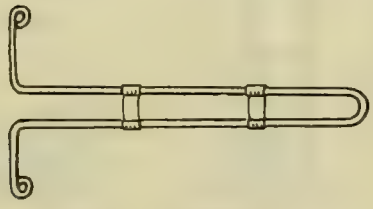
B2774



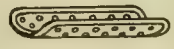
B2775

B2774 ROBERT JONES' HAND SPLINT, aluminium, three sizes: small, medium and large .. .. each

B2775 Ditto .. with thumb piece, two patterns: right and left, three sizes .. each



B2776



B2777

B2776 BÖHLER'S FINGER SPLINTS, tinned wire, set of three sizes .. per set

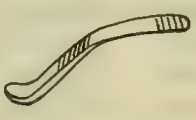
B2777 FINGER SPLINTS, perforated zinc, set of six sizes .. .. per set



B2778



B2779



B2780

B2778 "GUY'S" PATTERN FINGER SPLINTS, aluminium, set of six sizes.. per set

B2779 FINGER SPLINTS, gutter shaped with palm piece, aluminium, set of six sizes .. .. per set

B2780 FINGER SPLINTS, stout aluminium, set of six sizes .. .. per set

BONE INSTRUMENTS

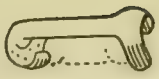
SPLINTS, ETC.



B2781



B2782



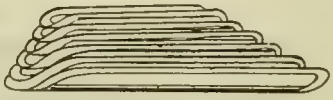
B2783

Cat. No.

B2781 FINGER SPLINTS, aluminium, set of six sizes .. .. .. per set

B2782 CRAMER'S FINGER SPLINTS, tinned wire, set of six sizes .. per set

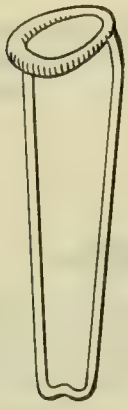
B2783 LEWIN'S FINGER SPLINTS, aluminium, set of three sizes .. per set



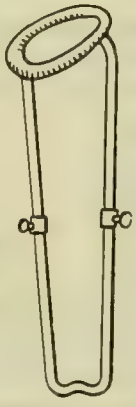
B2784

B2784 UNIVERSAL SPLINTS, gutter pattern, aluminium, malleable, thirty-one sizes: 6 in. to 36 in. long .. .. each

B2785 Ditto .. padded .. .. each



B2786



B2787



B2788



B2789



B2790

B2786 ROBERT JONES' modified THOMAS' FEMUR SPLINT, padded, 16 in. inside circumference of ring .. .. each

B2786A Ditto .. 17 in. to 28 in. inside circumference of ring .. .. each

B2787 Ditto .. telescopic .. .. each

B2788 Ditto .. half-ring, swivel .. .. each

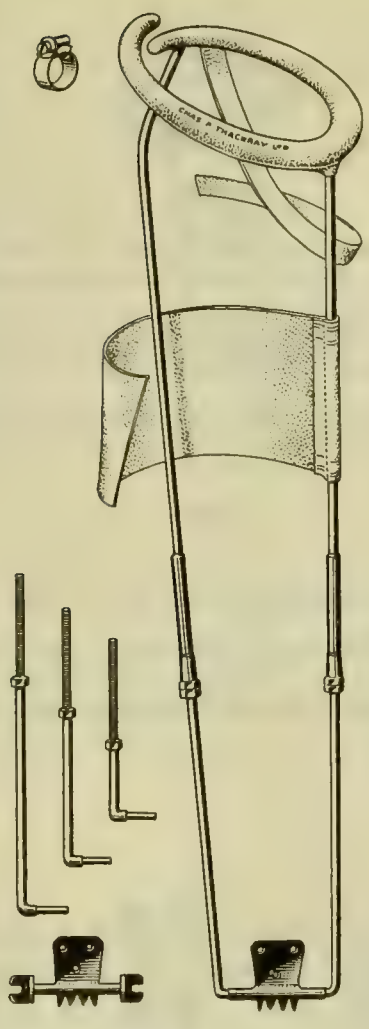
B2789 HEEL SOCKET, with plate for round caliper end .. .. each

B2790 KNEE CAP, single, for caliper splint .. .. each

*B2791 Ditto .. double .. .. each

Attachments for femur splints: page B524.

**Not illustrated*



B2793

Cat. No.

B2793 CHARNLEY'S WALKING CALIPER, consisting of: three adjustable rings (one each three sizes) with side bars attached, four pairs of extension pieces, (two each four sizes), two movable and one fixed heel sockets .. .. .. complete

The rings are split for adjustment, in three sizes: 15 in., 18 in. and 21 in. circle allowing approximately 1½ in. movement. The extension pieces are in four sizes: 3 in., 6 in., 9 in. and 12 in. with screw adjustments.

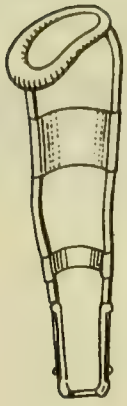
A complete splint can be assembled from the above parts to fit any patient. Size 15 in. extension piece, extra large, can be supplied additional to the set.

SPARE PARTS

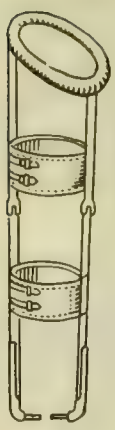
B2793A	Ring with leather apron	each
B2793B	Extension Pieces	pair
B2793C	Fixed Heel Socket	each
B2793D	Movable Heel Sockets	each

BONE INSTRUMENTS

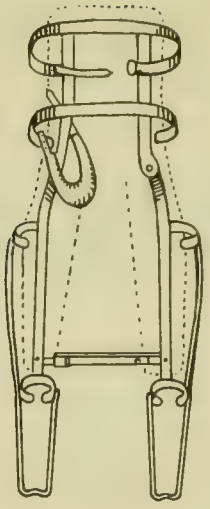
SPLINTS, ETC.



B2794



B2795



B2796

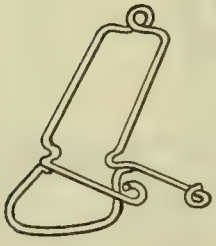
Cat. No.

B2794 CALIPER SPLINT, with leather apron and shoulder strap, to extend for growth .. .. each

B2795 CALIPER SPLINT, with two ring-catch joints, with thigh and calf bands, to extend for growth .. .. each

B2796 ROBERT JONES' ABDUCTION FRAME, single, with body pad and straps, each

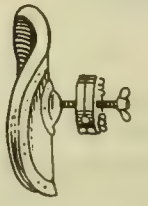
B2797 Ditto .. double .. .. each



B2798



B2799

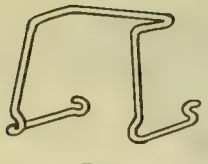


B2800

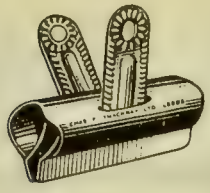
B2798 PEARSON'S SUPPORT, with loop, for attaching to femur splint, two sizes: small and large .. .. each

B2799 PEARSON'S KNEE FLEXION PIECE, for attaching to femur splint, two sizes: small and large .. .. each

B2800 PEARSON'S PRESSURE PAD, for attaching to femur splint, rubber covered, each



B2801



B2802



B2803

Cat. No.

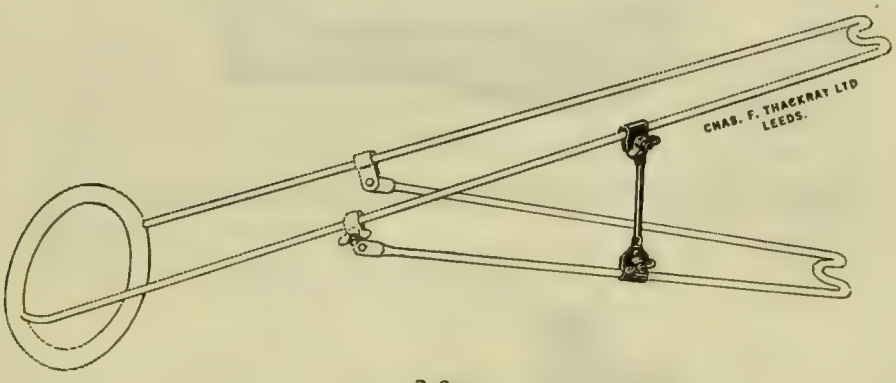
B2801 SINCLAIR'S REVERSIBLE STIRRUP, two sizes: small and large .. each

B2802 SPRING CLIP, for fixing slings to leg splints, sizes: 2½ in., 3 in. and 5 in. width of jaws .. .. each

The spring is sufficiently large to clear the bar of the splint.

B2803 SPRING CLIP, serrated pattern for fixing slings to leg splints, 2½ in. width of jaws .. .. each

This pattern has deeply serrated jaws to ensure a firm grip and has a coiled spring at the fulcrum thus allowing the jaws to clear the bar of the splint.

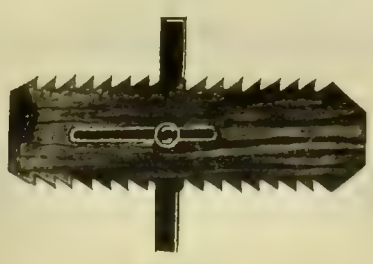


32804

B2804 HULMAN'S SUPPORTING BAR, for Pearson's Knee Flexion Piece .. each

This attachment provides stability when flexion of the knee has been obtained by Pearson's flexion piece. The device consists of a steel bar with a hinged clamp at each end. To vary the degree of flexion the bar is pushed towards or away from the hinge of the flexion piece. Wing nuts are provided to fix the bar in the desired position.

Vide "The Lancet", Jan. 2nd, 1954, page 26.



B2805

B2805 SINCLAIR'S FOOTPIECE, wood .. .. each

BONE INSTRUMENTS

SPLINTS, ETC.



B2806

Cat. No.

B2806 BRYANT'S BACK LEG SPLINT, wood, with adjustable footpiece .. each



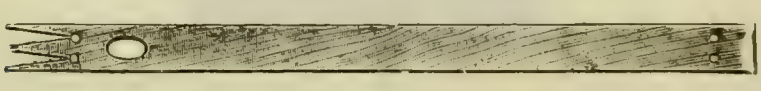
B2807

B2807 CLINE'S LEG SPLINT, wood, two patterns: right and left, three sizes: small, medium and large .. .. each



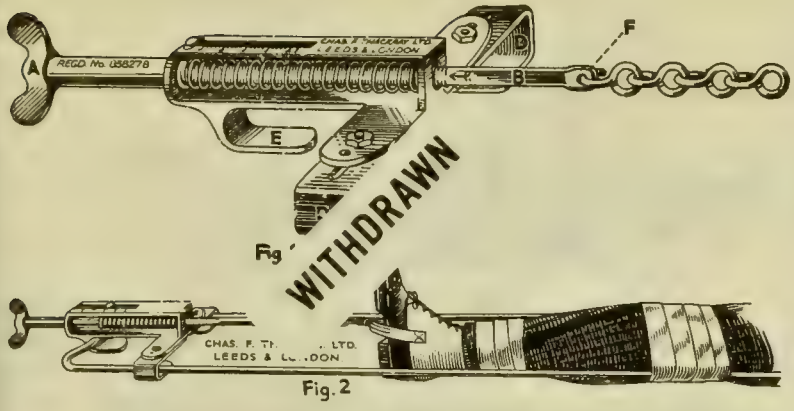
B2808

B2808 "GUY'S" PATTERN LEG SPLINT, wood, for either leg, three sizes: small, medium and large .. .. each



B2809

B2809 LISTON'S LEG AND THIGH SPLINT, wood, set of six sizes .. per set



B2810

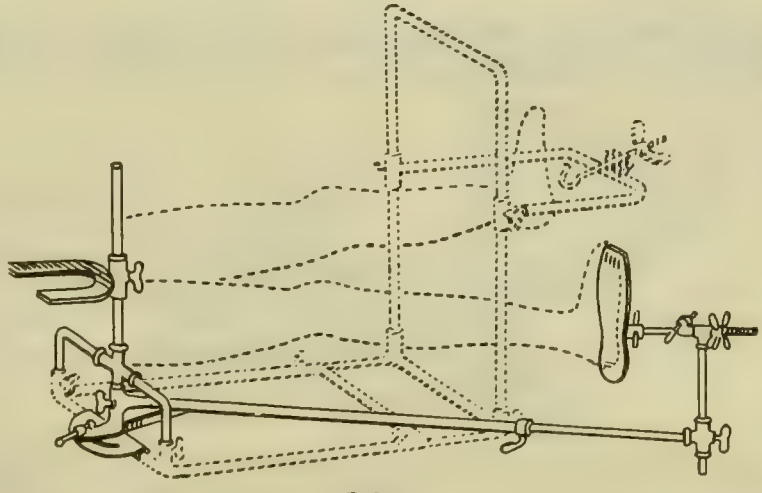
Cat. No.

B2810 RUFUS HARRIS' EXTENSION APPARATUS, for use with Thomas' type femur splints, with nickel plated chain, canvas spat with strap and steel footplate for attaching to chain .. .. complete

The apparatus is very simple: after selecting a splint of suitable ring size and length, the appliance is hooked over the end of the splint at E and the U-shaped clips D firmly pushed in to the splint sides to grip them firmly. The screw A must be unscrewed so that the rod B is withdrawn about 2 in. until the arrow on the rod shows at C. If the chain is then attached at F and hooked with tension to one of the swivels of the extension spat, extension can be applied gradually by turning the screw A in a clockwise direction until the desired degree is obtained as registered in lbs. on the graduated scale. A maximum of 25 lb. is possible.

The appliance has its use also in treatment in those cases where the patient is on a Thomas' type splint and counter-extension and immobilization are desired.

Vide the "B.M.J.", Dec. 4th, 1940, page 834.

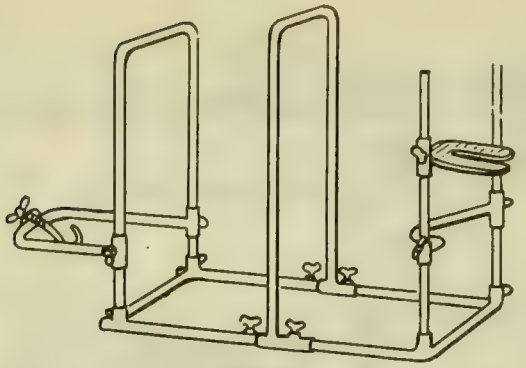


B2811

B2811 BÖHLER'S ABDUCTION-TRACTION FRAME, enamelled finish, for attaching to frames fig. Nos. B2812 and B2813 .. .. each

BONE INSTRUMENTS

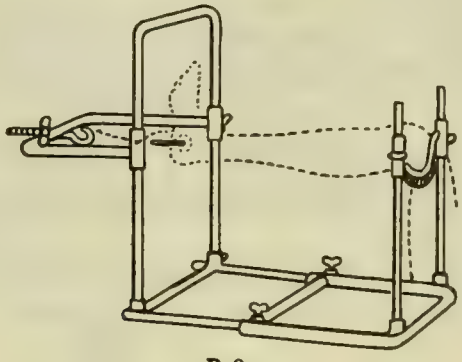
SPLINTS, ETC.



B2812

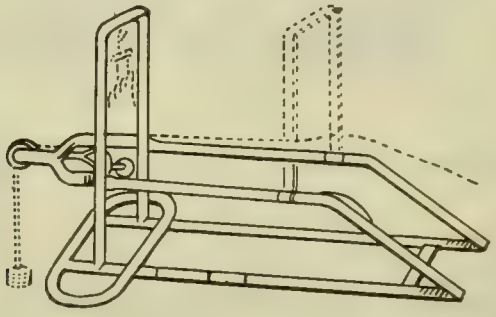
Cat. No.

B2812 BÖHLER'S TRACTION FRAME, enamelled finish, for femur and calcaneous, with centre loop, pelvic rest, knee rest and screw traction .. .. each



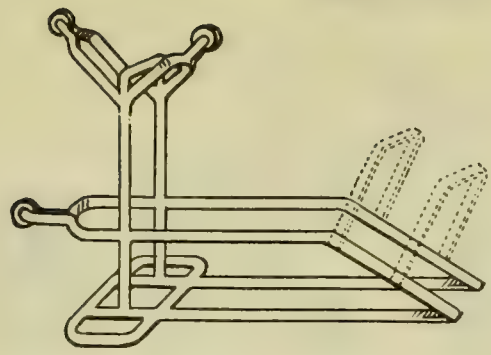
B2813

B2813 BÖHLER'S TRACTION FRAME, enamelled finish, for femur and calcaneous, with knee rest and screw traction.. .. .. each

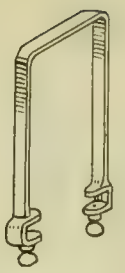


B2814

B2814 BÖHLER'S TRACTION FRAME, enamelled finish, with single pulley (Hoop: B2816A) .. .. each

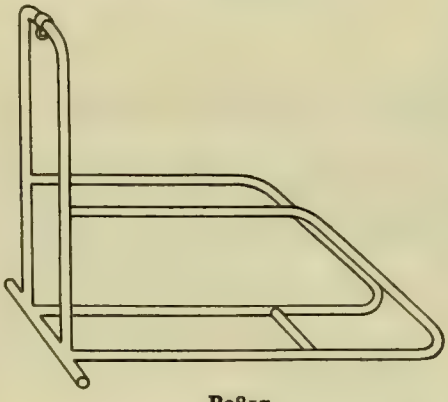


B2815

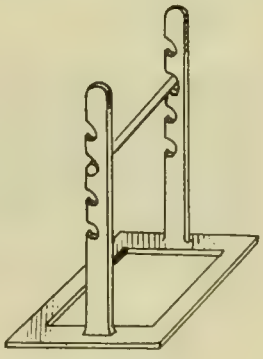


B2816A

Cat. No.		
B2815	BÖHLER'S TRACTION FRAME, enamelled finish, with three pulleys	each
*B2816	Ditto .. four pulleys	each
B2816A	PROTECTION HOOP, enamelled finish, for Böhler's Frames ..	each

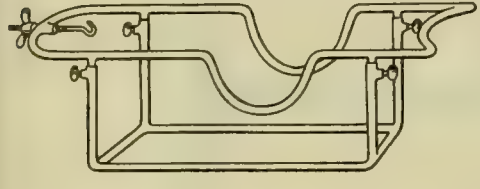


B2817

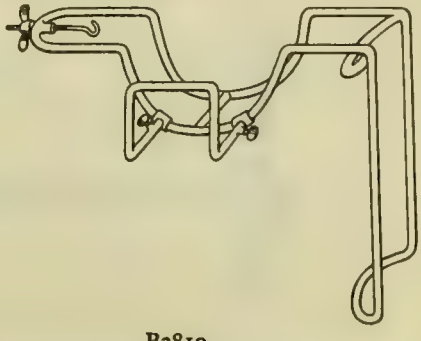


B2817A

B2817	BRAUN'S CRADLE SPLINT, enamelled finish, for use with independent pulleys..	each
B2817A	BÖHLER'S KNEE SUPPORT, enamelled finish, with adjustable rod..	each



B2818



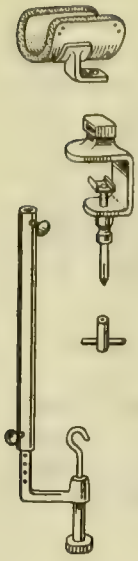
B2819

B2818	BÖHLER'S TRACTION FRAME, enamelled finish, for forearm, with screw traction; for either arm	each
B2819	BÖHLER'S TRACTION FRAME, enamelled finish, for humerus, with screw traction; for either arm	each

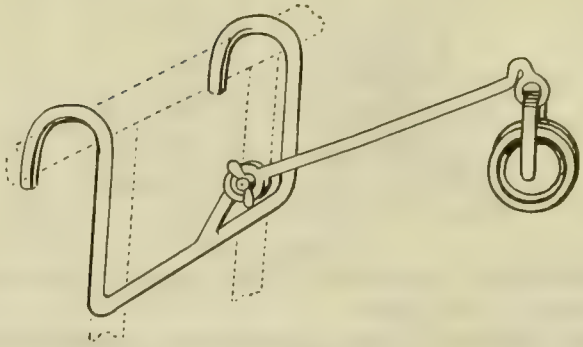
Not illustrated

BONE INSTRUMENTS

SPLINTS, ETC.



B2820

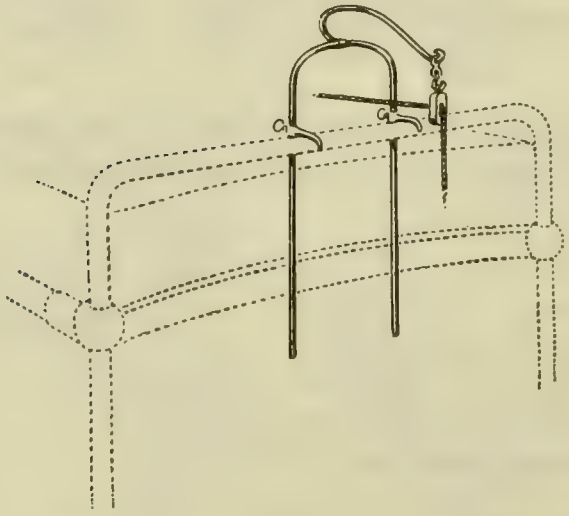


B2821

Cat. No.

B2820 WATSON-JONES' TIBIAL TRACTION APPARATUS, adjustable, with leather covered support, nickel plated .. .. each

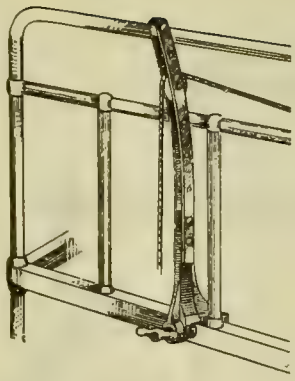
B2821 BUCK'S EXTENSION APPARATUS, dull-plated finish, with adjustable pulley arm, swivel pulley and rubber covered hooks for bedrail .. .. each



B2821A

B2821A "UNIVERSAL" EXTENSION APPARATUS, enamelled finish, with chain, pulley block and two pairs adjustable supporting hooks .. .. each

This apparatus can be applied to any hospital type bed, without the aid of clamps. It is simple in design and speedily applied.



B2822



B2822A



B2823

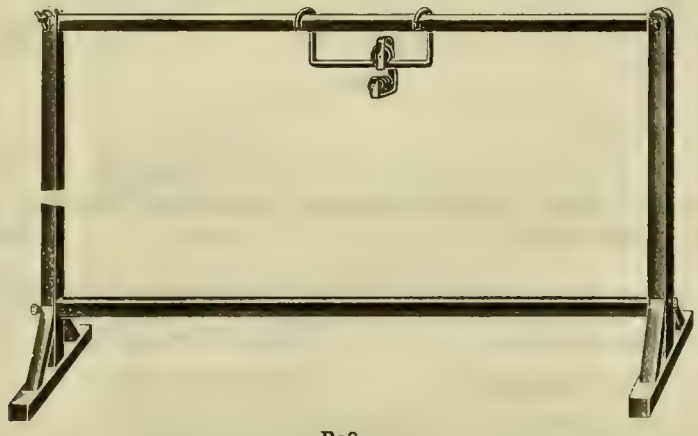
Cat. No.

B2822 "GUY'S" EXTENSION APPARATUS, enamelled finish, for fixing to bed, with pulley .. .. each

B2822A EXTENSION APPARATUS, enamelled finish, for fixing to bed, with pulley and screw clamps .. .. each

B2823 EXTENSION APPARATUS, enamelled finish, simple pattern, to fix on foot end of bed .. .. each

*B2823A Ditto .. for tubular bedsteads .. .. each



B2824

B2824 BALKAN BEAM, wood, to fit over 6 ft. 6 in. bed, height: 6 ft. complete with pulleys and cord, collapsible for storage .. .. complete

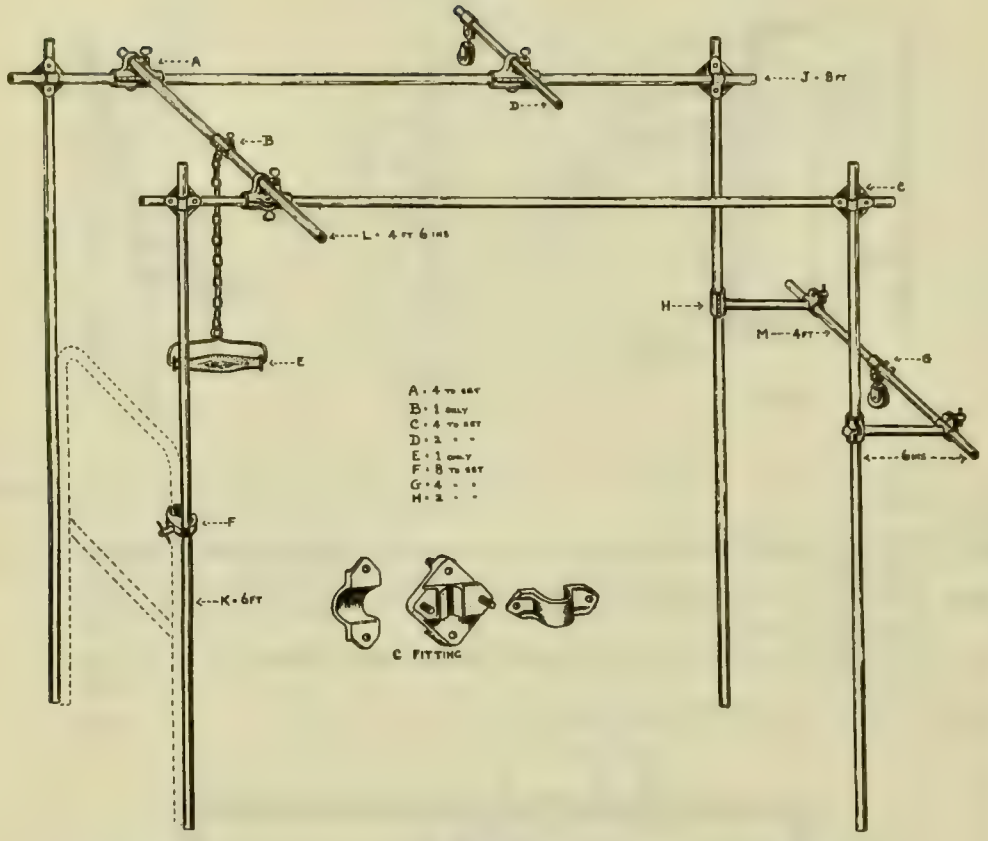
*B2825 Ditto .. double, four-poster .. .. complete

*B2826 FRACTURE BOARDS, wood, size 36 in. by 8 in. .. .. .. each

Not illustrated

BONE INSTRUMENTS

SPLINTS, ETC.

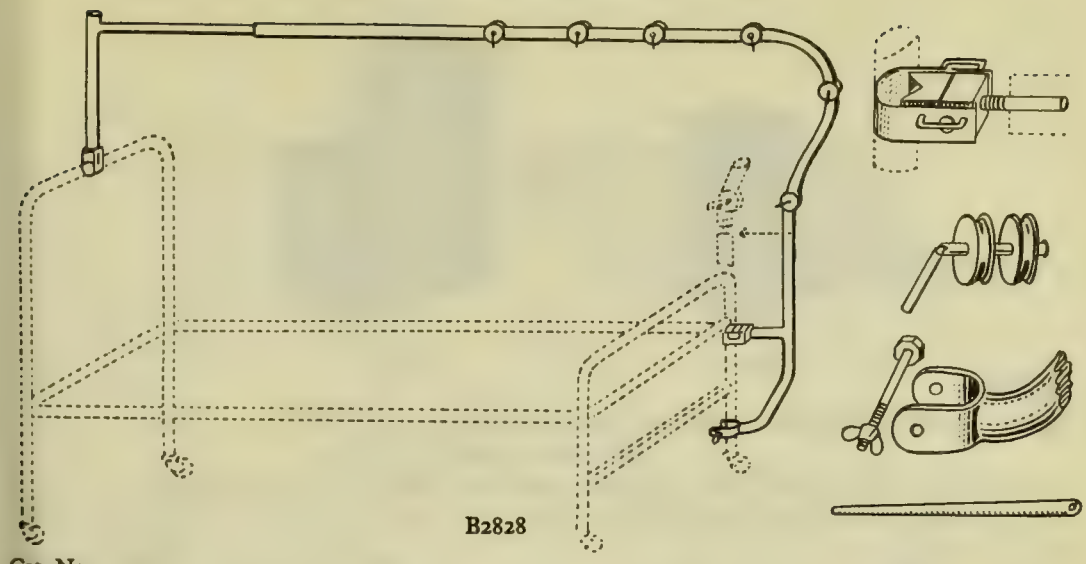


B2827

Cat. No.

B2827 "UNIVERSAL" BED FRAME, four-poster, tubular steel, enamelled finish, consisting of parts A to M .. .. complete

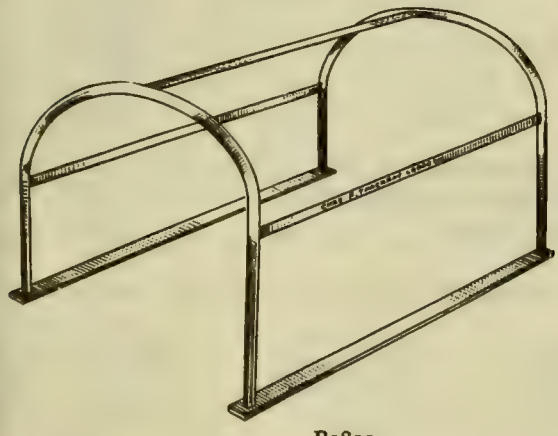
A. Double-hinged clamp.
B. Hinged eye clamp.
C. Two-way corner clamp.
D. Extension Tube.
E. Hand Grip.
F. Bed Clamp.
G. Extension Pulley with clip.
H. Foot Extension Fitting.
J. Horizontal Beam.
K. Corner Uprights.
L. Overhead Cross Beam.
M. Foot Extension Tube.



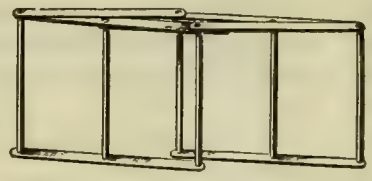
B2828

Cat. No.

B2828 SOUTTAR'S BALKAN BEAM, tubular steel, enamelled finish, with six pulleys complete



B2829



B2830

B2829 BED CRADLE, iron, aluminium painted, three sizes:

Length	Width	Height					
16 in.	12 in.	12 in.	..	..	..	..	each
20 in.	15 in.	13 in.	..	..	..	..	each
24 in.	18 in.	16 in.	..	..	..	..	each

B2830 BED CRADLE, Folding iron, aluminium painted, folding flat when not in use. Ideal for export as minimum space is required for packing and shipment. Four sizes. Measurements when open:

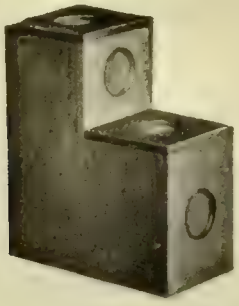
Size		Length	Width	Height		
No. 1.	For one knee	14 in.	13 in.	11 in.	..	each
No. 2.	For one leg	16 in.	15 in.	13 in.	..	each
No. 3.	For both legs	19 in.	17 in.	14 in.	..	each
No. 4.	For body	24 in.	22 in.	16 in.	..	each

BONE INSTRUMENTS

SPLINTS, ETC.



B2831



B2832

Cat. No.

B2831 BED BLOCK, wood, for tilting bed, seven sizes: 4 in. to 10 in. high .. per pair

Other sizes on request.

B2832 THE "FOURWAY" BED BLOCK, wood, for tilting bed, incorporating four heights: 4 in., 6 in., 8 in. and 10 in. .. .. per pair











B2833 B2834 B2835 B2837 B2840

B2833 WEIGHTS, complete with hanger, approximately 18 lb. .. .. set

B2834 WEIGHTS, tapered, complete with hanger, approximately 5 lb. .. set

B2835 PULLEY WHEEL, with hook, single, metal .. .. .. each

*B2836 Ditto .. double .. .. each

B2837 Ditto .. with screw, single (for wooden Balkan Beam) .. .. each

*B2838 Ditto .. double .. .. each

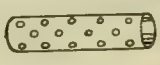
*B2839 EXTENSION CORD .. .. per yard

B2840 SPRING BALANCE, up to 50 lb. .. .. each

B2840A LEAD SHOT .. .. per lb.



B2841



B2843

B2841 CRAMER'S WIRE SPLINTING, 36 in. long, six widths: 1 in., 2 in., 3 in., 4 in., 5 in. and 6 in. .. .. each

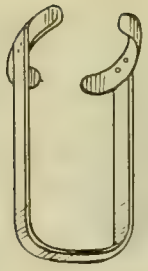
*B2842 "GYPSONA" PLASTER OF PARIS BANDAGES, in three yard lengths, four widths: 2 in., 3 in., 4 in. and 6 in., packed in sealed tins .. .. each

B2843 COLT'S PLASTER TUBES, perforated tin, four sizes: 3 in., 4 in., 5 in. and 6 in. long .. .. each

**Not illustrated*

BONE INSTRUMENTS

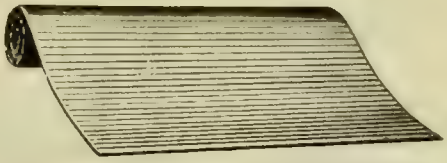
SPLINTS, ETC.



B2844



B2846



B2847

Cat. No.

B2844	BOHLER'S WALKING IRON, shaped, malleable, three sizes: small, medium and large	each
*B2845	Ditto .. with rubber heel	each
B2846	Ditto .. straight pattern	each
B2847	GOOCH'S SPLINTING, in rolls: 24 in. by 18 in.	per roll
B2848	Ditto .. 36 in. by 18 in.	per roll
B2849	Ditto .. 36 in. by 36 in.	per roll
*B2850	WEBBING STRAPS, with buckles, sizes: 18 in. and 27 in. long (other sizes on request) two widths: 1½ in. and 2 in.	each
*B2851	SPLINT WADDING, grey, non-absorbent wool, in 1 lb. rolls	per roll
B2851A	SPLINT PADDING, 2-oz. rolls, 4 in. wide	per doz. rolls
*B2853	STOCKINETTE, sizes 2 in., 2½ in., 3 in., 4 in., 6 in., 8 in., 10 in. and 12 in. wide	per 12 yards
*B2854	BOOK MUSLIN, 36 in. wide	per 12 yards
*B2855	FELT, 52, 58 and 60 in. wide	per lb.
*B2856	SPONGE RUBBER, uncovered, sizes: ½ in. and 1 in. thick (other sizes on request)	per sq. ft.
*†B2857	ALUMINIUM SHEETING, 24 in. by 24 in., $\frac{1}{8}$ in., $\frac{3}{64}$ in. and $\frac{1}{16}$ in. thick	per sheet
*†B2858	DURALUMIN SHEETING .. ditto	per sheet



B2859



B2860



B2861



B2862

B2859	BOOT PATTEN, state size and height required	each
B2860	Ditto .. flat ring	each
B2861	Ditto .. flat sole plate	each
B2862	Ditto .. oval type	each



B2863



B2864

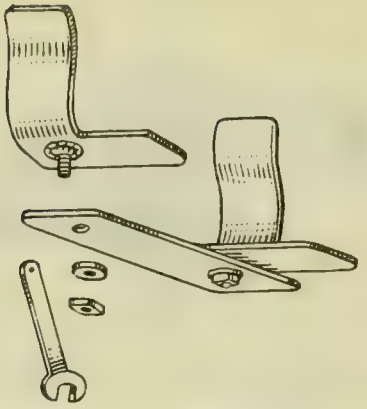
B2863	ROBERT JONES' SPLINT, for hallux valgus, aluminium	each
B2864	ROBERT JONES' SPLINT, for hammer toe, aluminium	each

**Not illustrated*

†Can be supplied to any size required.

BONE INSTRUMENTS

SPLINTS, ETC.

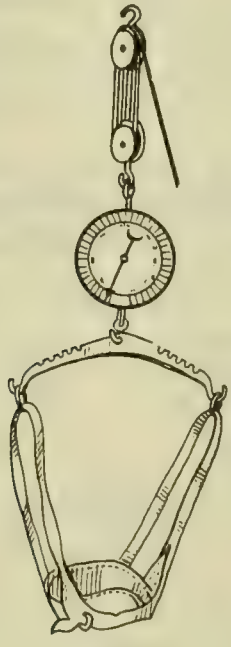


B2865



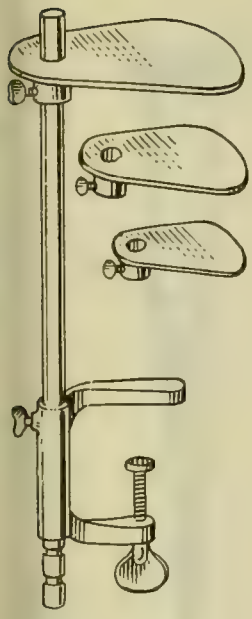
B2866

Cat. No.		
B2865	DENIS BROWNE'S TALIPES SPLINT, aluminium, with spanner, three sizes: small, medium and large	each
B2866	DENIS BROWNE'S TALIPES SPLINT, aluminium, fixed crossbar, with bootees	each
B2867	Ditto .. with adjustable crossbar	each

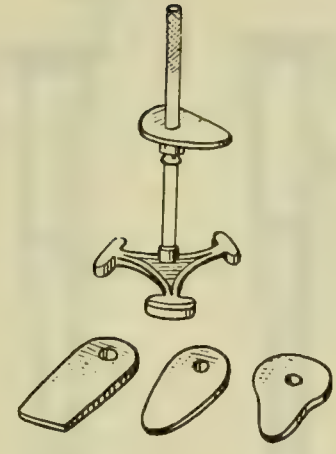


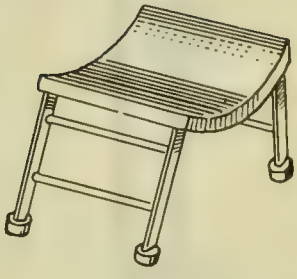
B2868

B2868	GLISSON'S SLING, complete with spring balance and pulley tackle ..	each
B2869	Ditto .. sling and cross-bar only, without balance or pulley tackle ..	each
B2869A	Ditto .. sling only	each
B2869B	Ditto .. cross-bar only	each



B2870



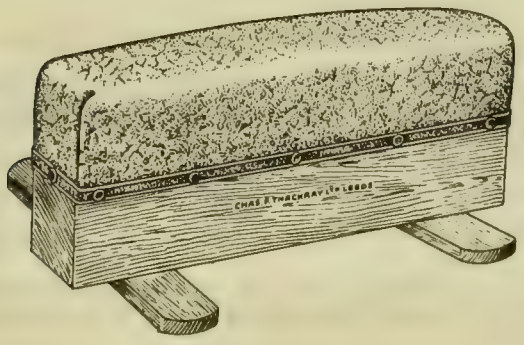


B2871

Cat. No.

B2870 LORENZ' PELVIC SUPPORT, with three detachable plates, nickel plated complete

B2871 ALLAN TODD'S SUPPORT, consisting of: pelvic support with four detachable plates and folding shoulder support, aluminium .. .. .. complete



B2872

B2872 VOLKMANN'S PELVIC REST, wood, padded top .. .. each

BONE INSTRUMENTS

SPLINTS, ETC.



B2873



B2875



B2876



B2877

Cat. No.

B2873 INVALID CRUTCH, beechwood, with padded head, polished natural finish per pair

*B2874 Ditto .. unpadded head .. .. per pair

B2875 FRENCH PATTERN INVALID CRUTCH, beechwood, with padded head, polished black finish .. .. per pair

B2876 INVALID CRUTCH, beechwood, with adjustable hand grip and padded head, polished natural finish .. .. per pair

B2877 INVALID CRUTCH, beechwood, with padded head, adjustable base and hand grip, two sizes : 44 in. to 54 in. adjustment and 48 in. to 58 in. adjustment, polished black or natural finish .. .. per pair

B2877A Ditto .. 36 in. to 44 in. adjustment for children .. .. .. per pair

**Not illustrated*



B2878



B2879



B2881



B2882



B2883

Cat. No.

B2878 INVALID CRUTCH, beechwood, with metal top uprights containing concealed springs, padded head, polished black finish .. .. per pair

B2879 INVALID CRUTCH, elbow type, beechwood, with padded armband, polished black finish .. .. per pair

*B2880 Ditto .. with nickel plated top and padded armband .. .. per pair

B2881 "FEATHERWEIGHT" INVALID CRUTCH, lightweight metal, with padded armband, polychromatic fawn stove-enamelled finish .. .. .. per pair

*B2881A EXTENDING ELBOW CRUTCH, rigid tubular construction, giving quick, safe adjustment for any height, black stove-enamelled finish .. .. per pair

B2882 CRUTCH SHOES, rubber, five sizes: $\frac{5}{8}$ in., $\frac{3}{4}$ in., $\frac{13}{16}$ in., 1 in. and $1\frac{1}{8}$ in. diameter of hole .. .. each

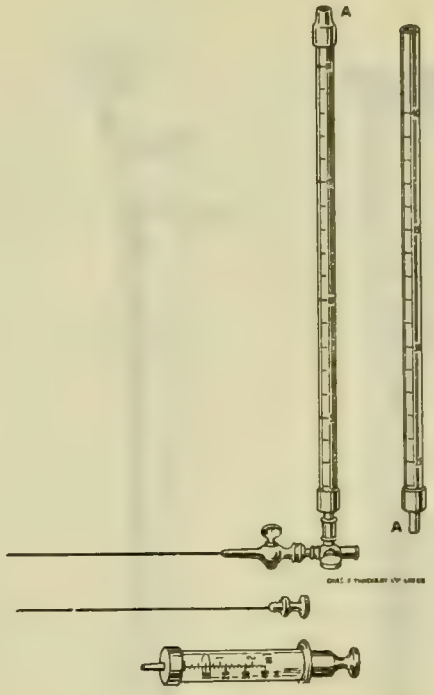
B2883 Ditto .. stout, with corrugated base, $1\frac{1}{2}$ in. diameter of hole .. each

*B2884 STICK RUBBERS .. .. each

**Not illustrated*



V2885



V2889

Cat. No.

V2885 GREENFIELD'S SPINAL MANOMETER, consisting of: graduated glass tube, two slide-markers, two stainless steel needles (one of each two sizes: 18 and 20 B.W.G. by 3½ in. long) with chromium plated stopcocks, Record fitting, and small length of rubber tubing connecting tube to needle, in wooden case .. complete

V2886 Spare Graduated Glass Tubes .. .. each

V2887 Spare Needles, stainless steel, two sizes: 18 and 20 B.W.G. .. .. each

V2887A Ditto .. Luer fitting .. .. each

*V2888 STERILIZING TUBE, for Greenfield's Manometer, consisting of: chromium plated tube fitted with rack (to take manometer, needles and 2 ml. syringe) each

The screw-fitting cap has a perforated top which can be occluded by a shutter arrangement and the apparatus is kept ready for immediate use. For sterilization by autoclave ONLY.

V2889 ADSON'S SPINAL MANOMETER, consisting of: two graduated glass tubes with chromium plated stopcock; 2 ml. Record fitting syringe and one stainless steel needle, 19 B.W.G. by 3½ in. long, in leatherette covered case .. .. each

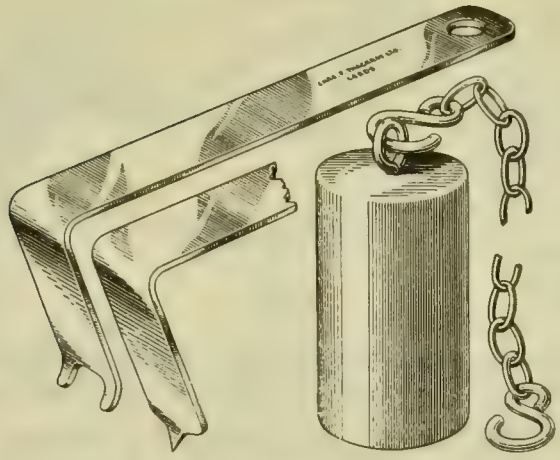
The glass tubes are fitted with mounts to joint one to the other.

V2890 Spare Graduated Glass Tubes, in two parts .. .. complete

V2891 Spare Syringe, 2 ml. all-glass, with metal nozzle, Record fitting .. each

V2892 Spare Needles, stainless steel, 19 B.W.G. by 3½ in. long .. .. each

**Not illustrated*



V2893

Cat. No.

V2893 CHARNLEY'S LAMINECTOMY RETRACTORS, for operations on nucleus pulposus, consisting of: four stainless steel retractors (two each small and large with single-hook and double-hook blades); two weights each with chain, chromium plated .. .. complete

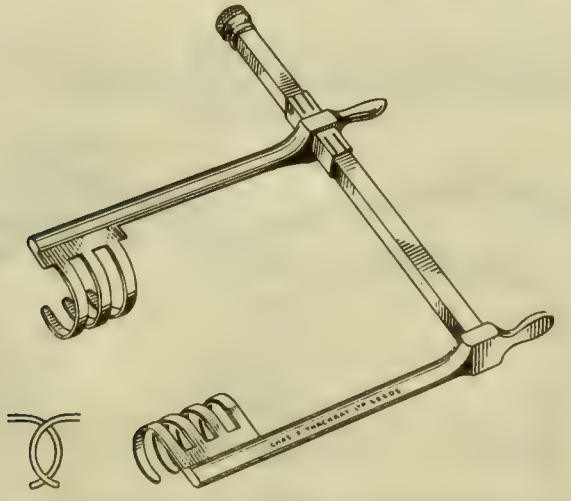
V2894 Spare Retractors, single-hook, two sizes: small and large .. .. each

V2895 Ditto .. double hook, two sizes: small and large .. .. .. each

V2896 Spare Weights, each with chain .. .. each

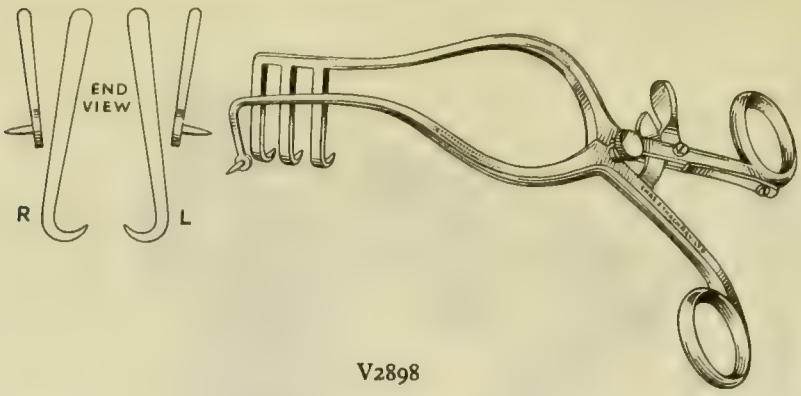
The blunt double-hook blade is used to retract the muscles from the spine above the level of the sacrum. The sharp single-hook blade is used to retract the muscle overlying the sacrum; it is driven into the bone with a mallet.

Vide "The Lancet", Nov. 15th, 1947, page 724.



V2897

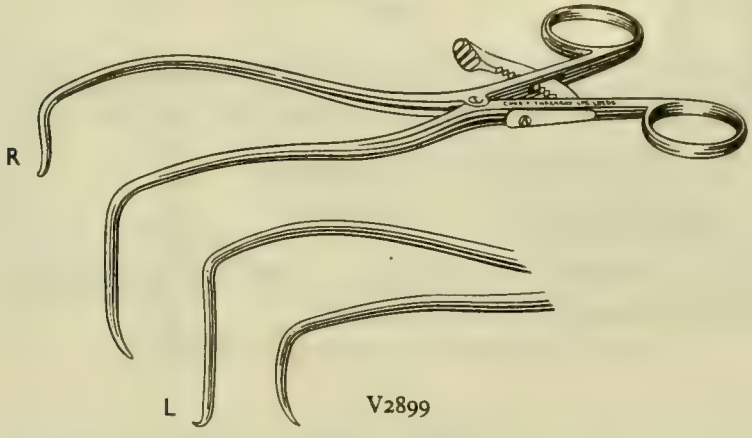
V2897 FRAZIER'S LAMINECTOMY RETRACTOR, stainless steel .. each



V2898

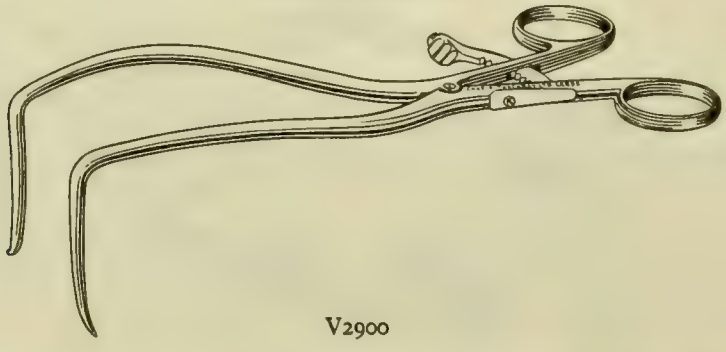
Cat. No.

V2898 GLEADHILL'S LAMINECTOMY RETRACTOR, stainless steel, two patterns: with short prong and "stop" on left side and with short prong and "stop" on right side .. .. each
For unilateral exposure. As used at the Department of Neurosurgery, Richmond Hospital, Dublin, Eire.



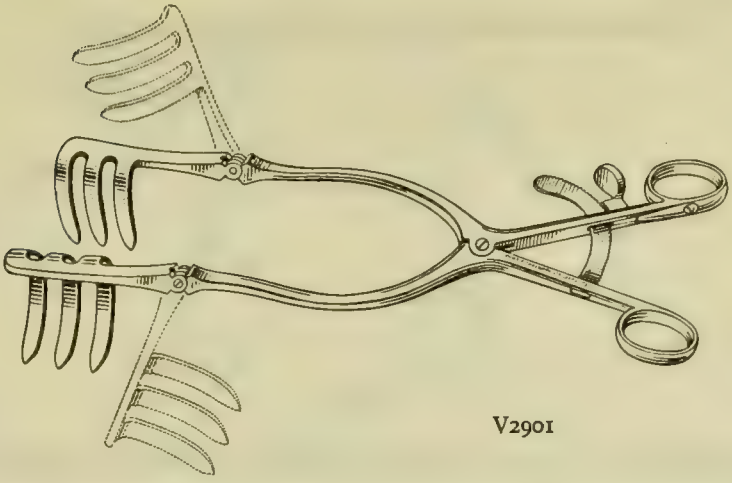
V2899

V2899 HARDMAN'S LAMINECTOMY RETRACTOR, stainless steel, two patterns: with short prong on left side and with short prong on right side .. each
For unilateral exposure.



V2900

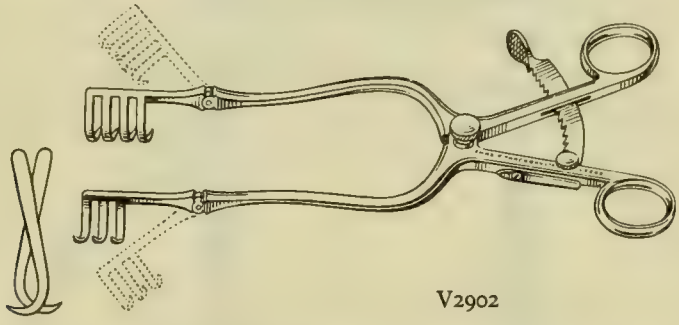
V2900 HARDMAN'S LAMINECTOMY RETRACTOR, stainless steel, with equal prongs .. .. each
For bilateral exposure.



V2901

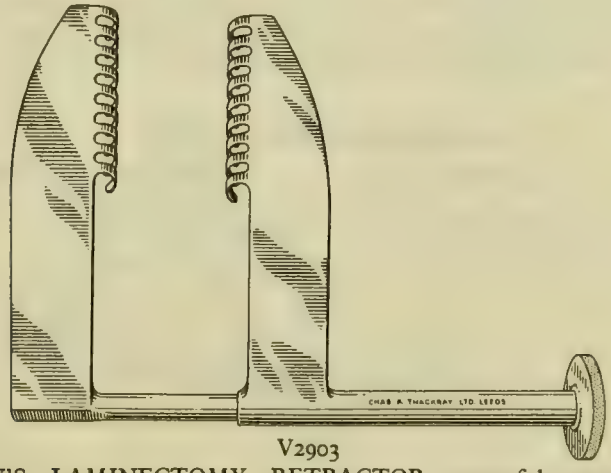
Cat. No.

V2901 HARVEY JACKSON'S (or Adson's) LAMINECTOMY RETRACTOR, with hinged arms and deep blades, cam ratchet movement, stainless steel .. each



V2902

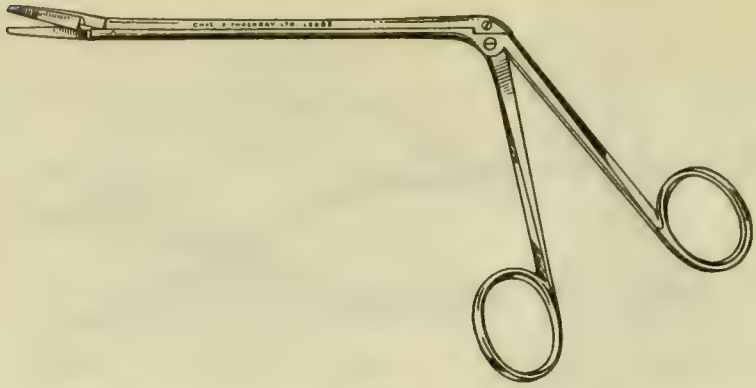
V2902 JEFFERSON'S LAMINECTOMY RETRACTOR, with hinged arms and sharp prong blades, stainless steel .. .. each



V2903

V2903 WAKELEY'S LAMINECTOMY RETRACTOR, powerful, screw action, stainless steel .. .. each

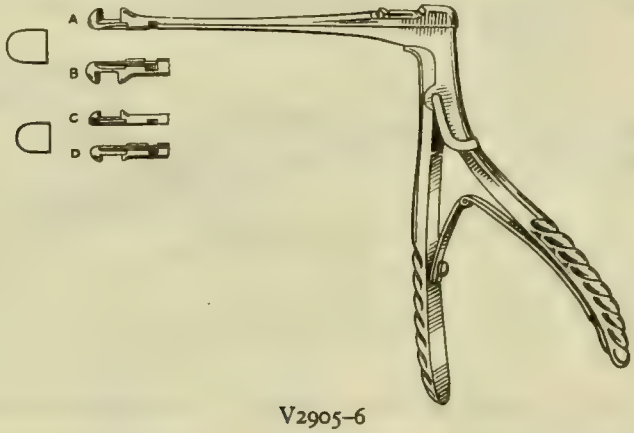
Laminectomy Retractors: see also fig. Nos. G611 *and* G612.



V2904

Cat. No.

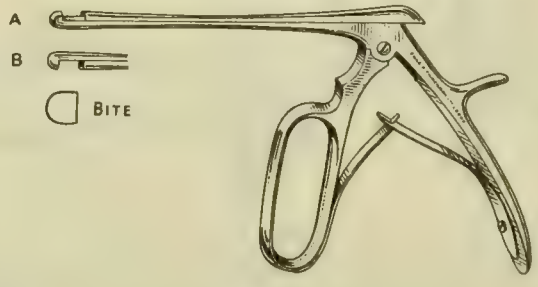
V2904 HARDMAN'S SPINAL TUMOUR SCISSORS, crocodile action, stainless steel .. .. each



V2905–6

V2905 HAJEK'S PUNCH FORCEPS, for "punching down" in disc excision, large size, two patterns: upward cutting (A) and downward cutting (B), stainless steel, each

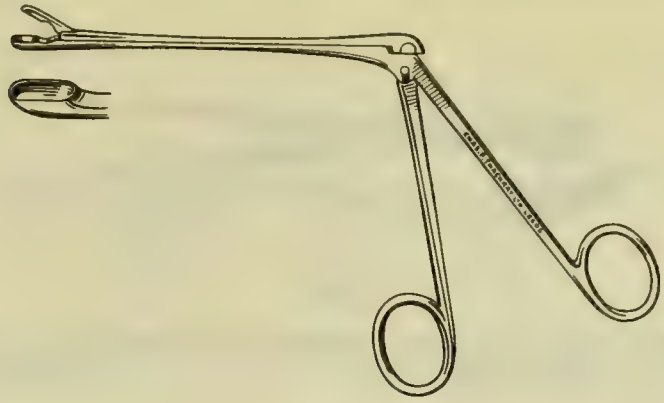
V2906 Ditto .. small size, two patterns: upward cutting (C) and downward cutting (D), each



V2907–8

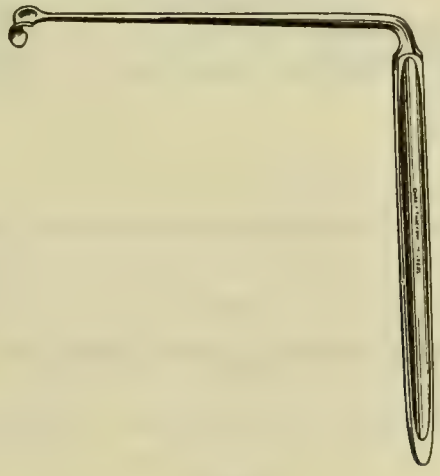
V2907 FERRIS SMITH'S (or Kerrison's) PUNCH FORCEPS, for "punching down" in disc excision, upward cutting (A), stainless steel .. .. .. each

V2908 Ditto .. downward cutting (B) .. .. each



V2909

V2909 CAIRNS-CUSHING'S DISC EXCISION FORCEPS, straight, stainless steel, three sizes: 3 mm., 4 mm. and 5 mm. wide .. .. each



V2910

V2910 LOVE'S NERVE ROOT RETRACTOR, angled, stainless steel .. each

V2911 Ditto .. straight .. .. each



V2912

V2912 SYMPATHECTOMY DISSECTING FORCEPS, 10 in., stainless steel each



V2913

Cat. No.

V2913 DUDFIELD ROSE'S ARTERY FORCEPS, for sympathectomy, curved-on-flat, box joint, 10¼ in., stainless steel .. .. each



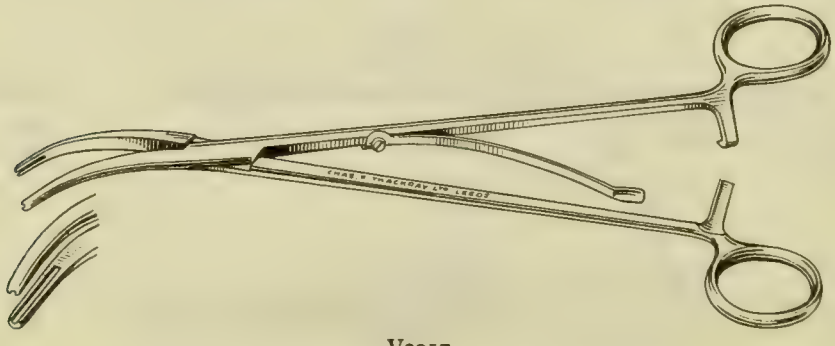
V2914

V2914 SYMPATHECTOMY SCISSORS, curved-on-flat, 9 in., stainless steel, each
V2915 Ditto .. straight .. .. each



V2916

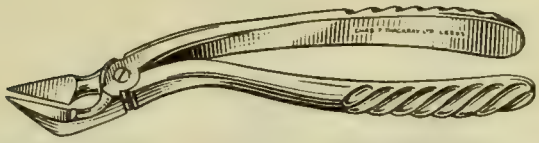
V2916 SMITHWICK'S SYMPATHECTOMY HOOK, double-ended, 12 in., stainless steel .. .. each



V2917

V2917 SMITHWICK'S (modified McKenzie's) CLIP INTRODUCING FORCEPS, for sympathectomy, curved-on-flat, box joint, 9 in., stainless steel .. each

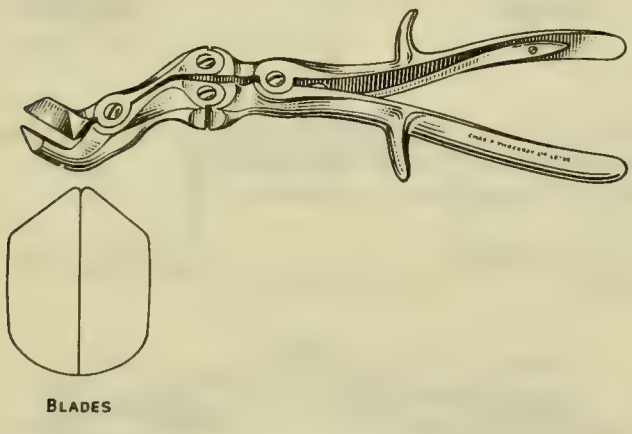
Clips for use with above: page V561.



V2918

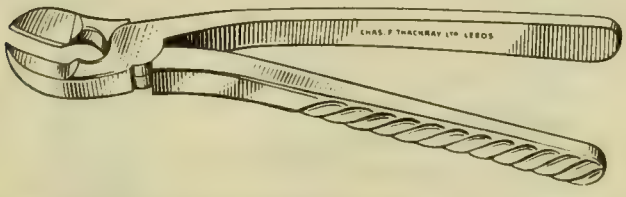
Cat. No.

V2918 HORSLEY'S LAMINECTOMY FORCEPS, with prismatic points, circular joint, 8¾ in., stainless steel .. .. each



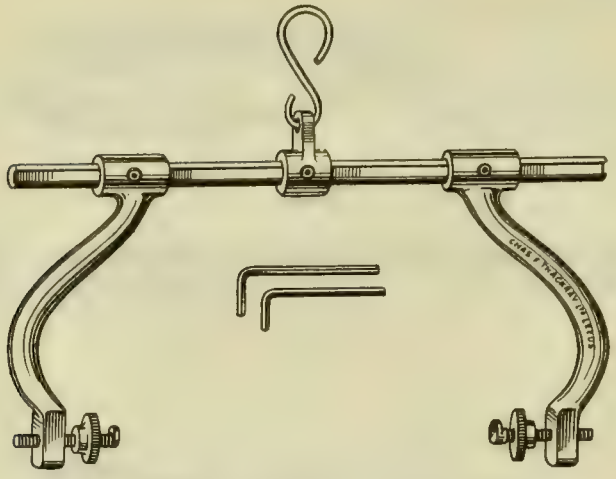
V2919

V2919 KEY'S LAMINECTOMY FORCEPS, angular, multiple action joints, stainless steel .. .. each



V2920

V2920 SARGENT'S LAMINECTOMY FORCEPS, circular joint, 10½ in., stainless steel .. .. each

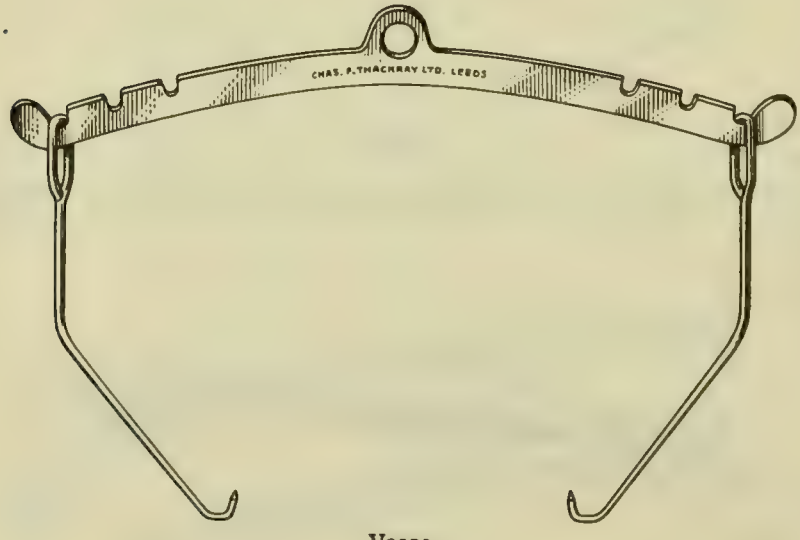


V2921

Cat. No.

V2921 BLACKBURN'S SKULL TRACTION APPARATUS, for spinal fractures and dislocations, stainless steel, complete with two wrenches .. .. each

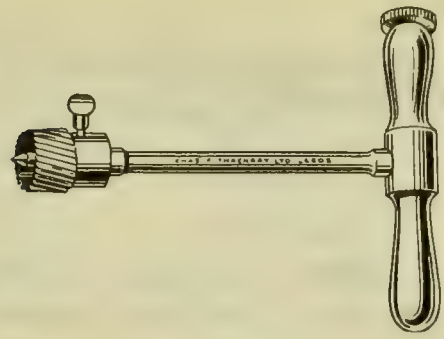
*V2922 TREPHINE, with T-handle for use with above .. .. .. each



V2923

V2923 BATCHELOR'S SKULL TRACTION APPARATUS, with two zygoma hooks, stainless steel .. .. each

Not illustrated



V2924

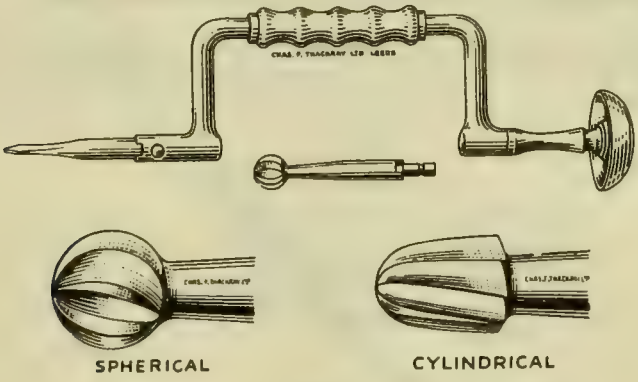
Cat. No.

V2924 HORSLEY'S SKULL TREPHINE, complete with detachable T-handle, nickel plated, sizes: ¼ in., ½ in., ¾ in. and 1 in. diameter .. .. .. each

V2924A Set of above four sizes with *one* handle, in nickel plated case .. .. complete

V2925 Handle only .. .. each

V2926 Trephines only, four sizes, to fit above handle .. .. .. each



V2927

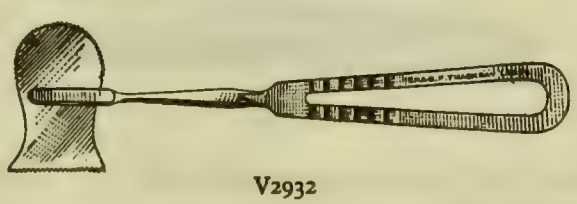
V2927 HUDSON'S BRACE, stainless, with one drill and four assorted burrs, stainless steel .. .. each

V2928 Brace only, stainless .. .. each

V2929 Burrs only, spherical, sizes: 16 mm. and 23 mm., stainless steel .. each

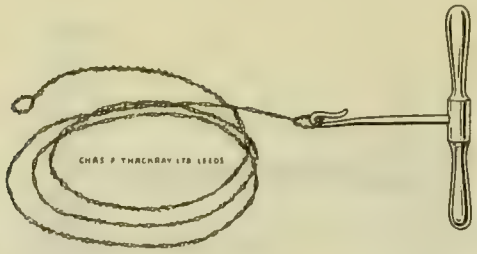
V2930 Ditto .. cylindrical, tapered, sizes: 9 mm. and 13 mm., stainless steel.. each

V2931 Drill only, stainless steel .. .. each



V2932

V2932 HEY'S SKULL SAW, stainless steel .. .. each

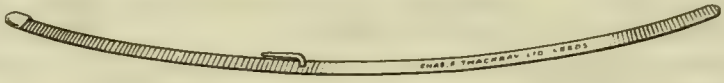


V2933 V2934

Cat. No.

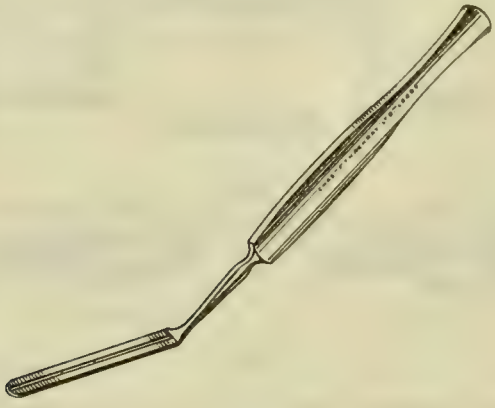
V2933 OLIVECRONA'S modified GIGLI'S SKULL SAW, unbreakable, three lengths: 30 cm., 50 cm. and 70 cm. .. .. each

V2934 Handles for above, used in pairs, chromium plated .. .. .. per pair



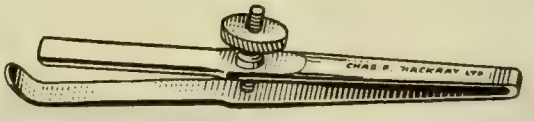
V2935

V2935 CAIRNS-DE MARTEL'S GUIDE, for Gigli type saws, stainless steel .. each



V2936

V2936 SARGENT-HORSLEY'S DURA MATER SEPARATOR, with grooved blade, stainless steel .. .. each

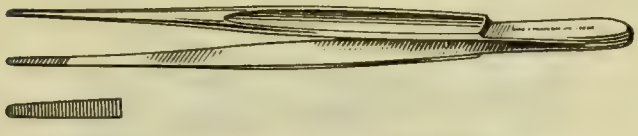


V2937

V2937 CRILE'S CAROTID CLAMP, straight, stainless steel .. .. each

*V2938 Ditto .. curved laterally .. .. each

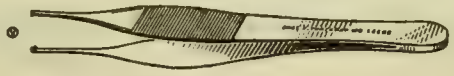
*Not illustrated.



V2939

Cat. No.

V2939 DOTT'S ENDOTHERMIC DISSECTING FORCEPS, 7 in., stainless steel, each



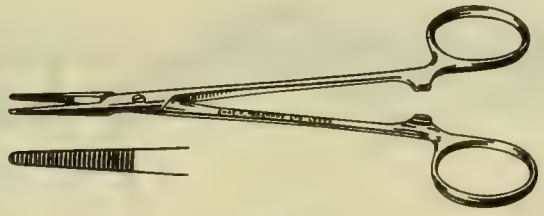
V2940

V2940 ADSON'S DURAL DISSECTING FORCEPS, lightweight handles, with fine one into two teeth on smooth jaws, 5 in., stainless steel .. .. each

V2941 Ditto .. 7 in. .. .. each

*V2942 ADSON'S DURAL DISSECTING FORCEPS, with lightweight handles and non-toothed serrated jaws, 5 in., stainless steel .. .. .. each

V2943 Ditto .. 7 in. .. .. each



V2944

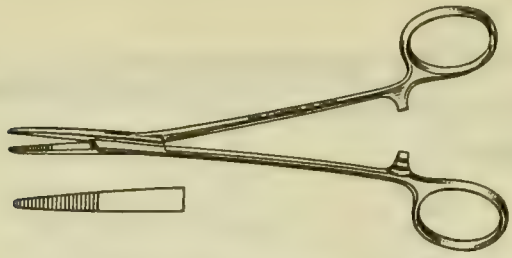
V2944 CAIRNS' ARTERY FORCEPS, straight, screw joint, 5¾ in., stainless steel, each



V2945

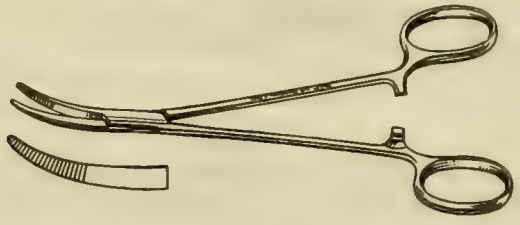
V2945 CAIRNS' ARTERY FORCEPS, curved-on-flat, screw joint, 5¾ in., stainless steel, each

Not illustrated



V2946

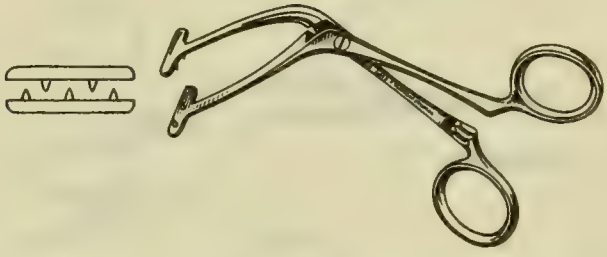
V2946 CUSHING'S ARTERY FORCEPS, straight, lightweight, box joint, 5½ in., stainless steel .. .. each



V2947

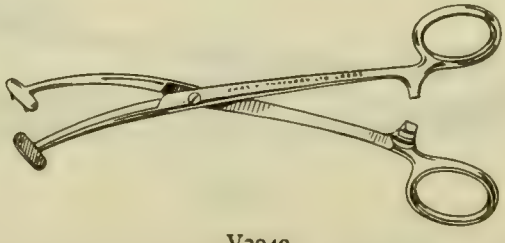
V2947 CUSHING'S ARTERY FORCEPS, curved-on-flat, lightweight, box joint, 5½ in., stainless steel .. .. each

Other Artery Forceps: General Operation Section, pages G57–70.



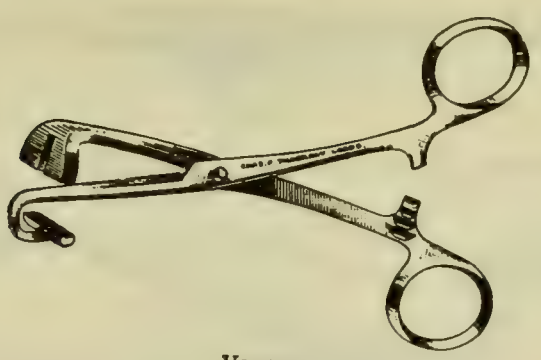
V2948

V2948 BALLANCE'S SCALP FLAP FORCEPS, with jaws ¾ in. wide, screw joint, 5 in., stainless steel .. .. each



V2949

V2949 DE MARTEL'S SCALP FLAP FORCEPS, with jaws $\frac{9}{16}$ in. wide, screw joint, 5½ in., stainless steel .. .. each



V2950

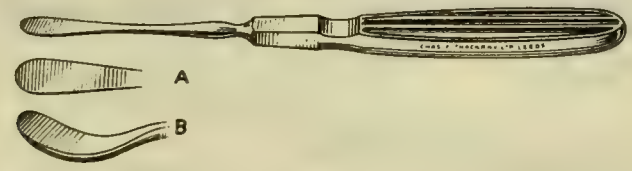
Cat. No.

V2950 SARGENT'S SCALP FLAP FORCEPS, with jaws 1 in. wide, screw joint, 5½ in., stainless steel .. .. each



V2951

V2951 HORSLEY'S DURA MATER ELEVATOR, stainless steel .. each



V2952–3

V2952 ADSON'S SKULL RASPATORY, straight (A), 7 in., stainless steel, chromium plated hollow handle .. .. each

V2953 Ditto .. curved (B) .. .. each



V2954

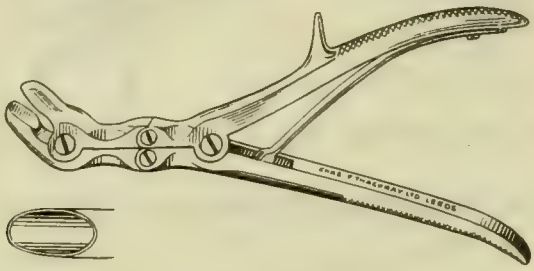
V2954 HEATH'S PERICRANIAL ELEVATOR, 6¾ in., stainless steel .. each



V2955

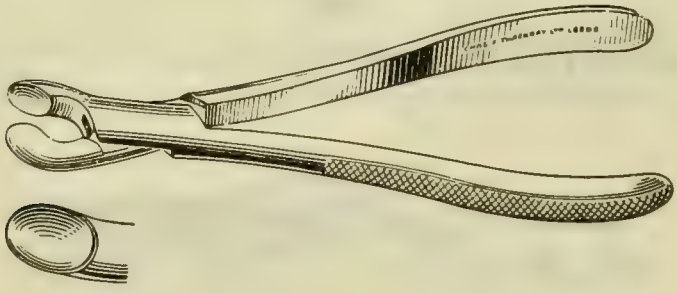
Cat. No.

V2955 HORSLEY'S SKULL ELEVATOR, 7 in., stainless steel .. .. each



V2956

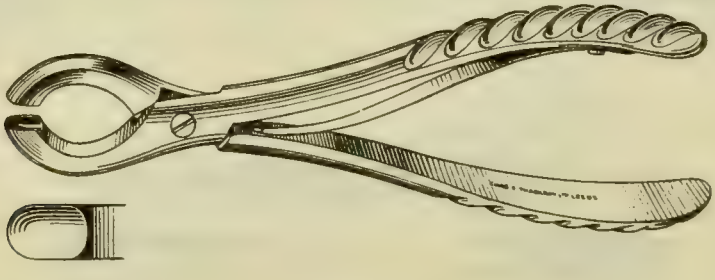
V2956 DOTT'S GOUGE FORCEPS, multiple-action joints, 9 in., stainless steel each



V2958

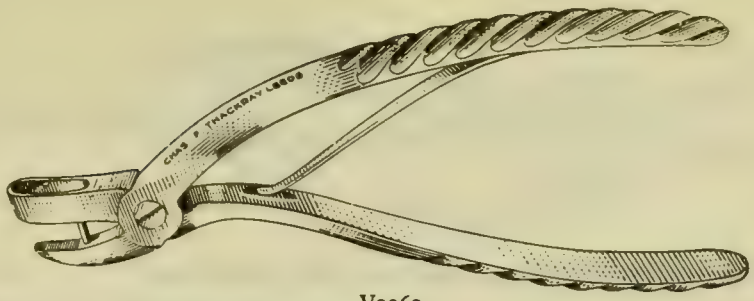
V2957 CAIRNS' GOUGE FORCEPS with shallow lower blade, curved-to-left, box joint, 7 in., stainless steel .. .. each

V2958 Ditto .. curved-to-right .. .. each



V2959

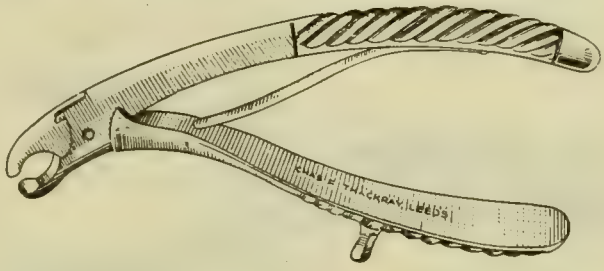
V2959 FERGUSSON'S GOUGE FORCEPS, straight, screw joint, 7¾ in., stainless steel, each



V2960

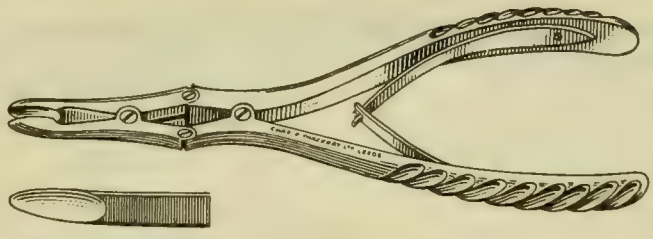
Cat. No.

V2960 HOFFMANN'S GOUGE FORCEPS, screw joint, 8 in., stainless steel .. each



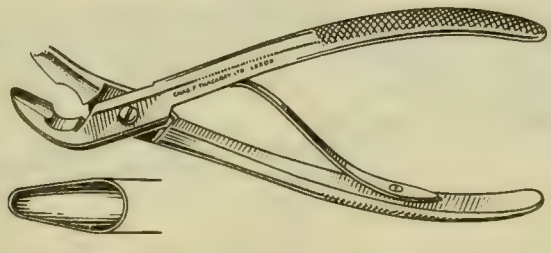
V2961

V2961 HORSLEY'S GOUGE FORCEPS, screw joint, 7 in., stainless steel .. each



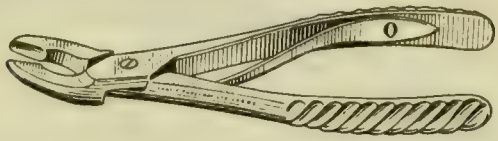
V2962

V2962 JANSEN'S (or Luer's) GOUGE FORCEPS, multiple-action joints, 7½ in., stainless steel .. .. each



V2963

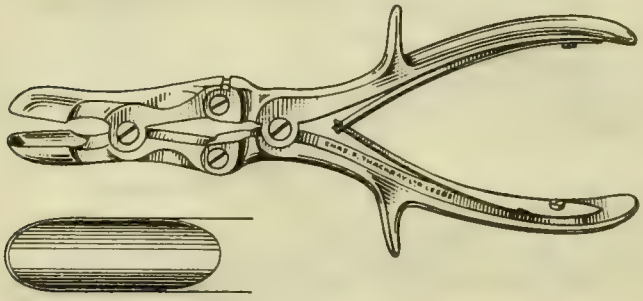
V2963 TROTTER'S GOUGE FORCEPS, screw joint, 8¾ in., stainless steel.. each



V2964

Cat. No.

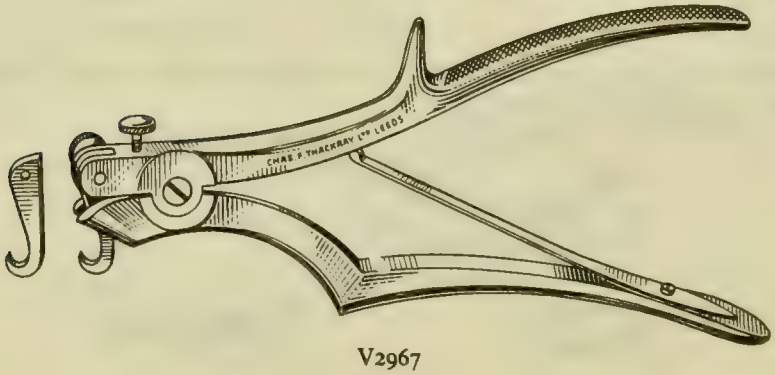
V2964 WILM'S GOUGE FORCEPS, screw joint, 8 in., stainless steel .. each



V2965

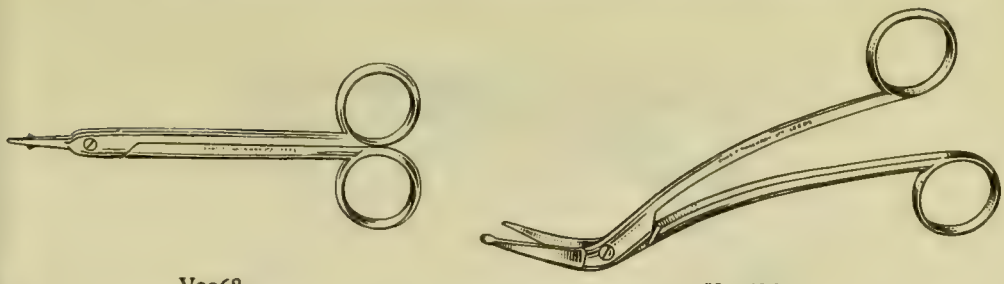
V2965 VAN HAVRE'S GOUGE FORCEPS, straight, with double spring, multiple-action joints, 9½ in., stainless steel .. .. each

V2966 Ditto .. curved-on-flat .. .. each



V2967

V2967 DE VILBISS' SKULL CUTTING FORCEPS, with two blades, screw joint, 7¾ in., stainless steel .. .. each

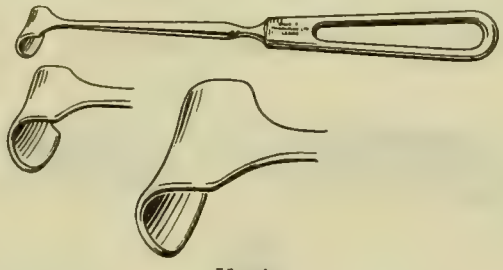


V2968 V2968A

Cat. No.

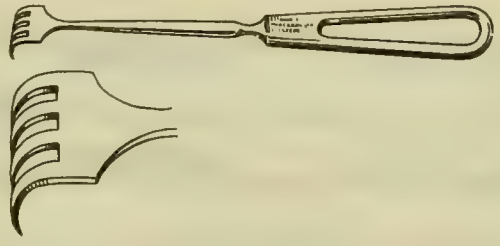
V2968 DOTT'S DURA MATER SCISSORS, 4¾ in., stainless steel .. .. each

V2968A SCHMIEDEN'S DURA MATER SCISSORS, 5¾ in., stainless steel .. each



V2969

V2969 CAIRNS' SCALP RETRACTOR, 8¼ in., stainless steel, two sizes: small and large .. .. each



V2970

V2970 CAIRNS' SCALP RETRACTOR, with four-prong blade, 8¼ in., stainless steel, each

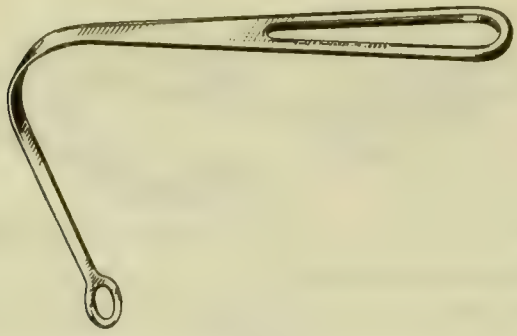


V2971

V2971 CRILE'S BRAIN RETRACTOR, malleable, polished copper, 7 in., sizes: ½ in., ¾ in. and 1 in. wide .. .. each

V2972 CRILE'S (or Walton's) BRAIN RETRACTOR, malleable, polished copper, 10 in., sizes: ½ in., ¾ in. and 1 in. wide .. .. each

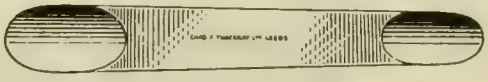
V2973 Ditto .. sizes: 1¼ in. and 1½ in. wide .. .. each



V2974

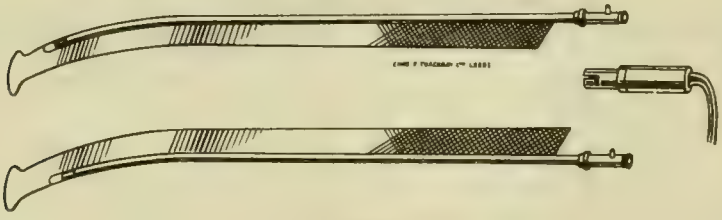
Cat. No.

V2974 CRILE'S BRAIN RETRACTOR, angled, stainless steel .. .. each



V2975

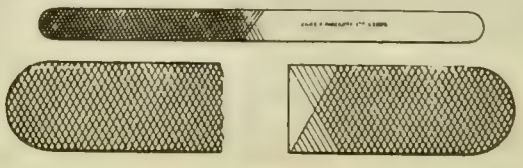
V2975 CUSHING'S BRAIN RETRACTOR, scooped ends, malleable, silver plated, tapered width, three lengths: 6¾ in., 8 in. and 11 in. .. .. .. each



V2976

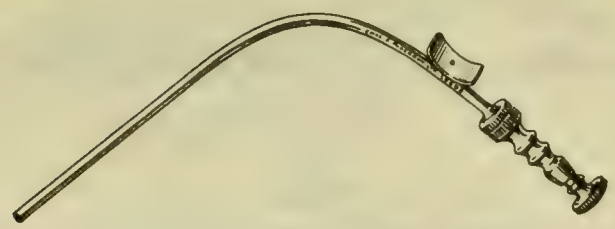
V2976 FRAZIER-ADSON'S BRAIN RETRACTORS, with one of each left and right blades, stainless steel, with lamps and rubber covered cables.. complete

V2977 Spare Lamps for above 3·5 v., 8 B.A. .. .. each



V2978

V2978 FRAZIER'S BRAIN RETRACTOR, with 3¾ in. roughened surface on one side and 1¼ in. roughened surface on the other, malleable, 7½ in., silver plated, each



V2979

Cat. No.

V2979 FRAZIER'S BRAIN SUCTION TUBE, 8 French Catheter Gauge, with finger control and blunt pilot, silver plated .. .. each



V2980

V2980 SLOAN ROBERTSON'S BRAIN SUCTION TUBE, with finger control, blunt pilot and diathermy attachment, silver plated, three sizes of lumen: 1 mm., 2 mm. and 3 mm. diameter .. .. each



V2981

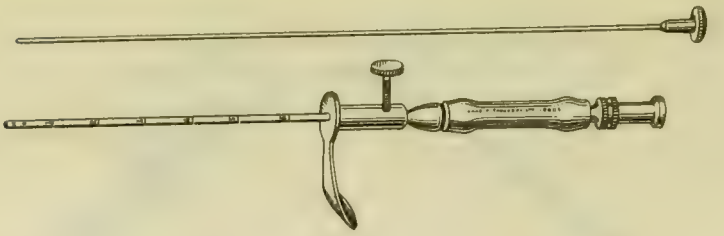
V2981 CAIRN'S VENTRICULAR CANNULA, silver, with gilt-band graduations in cms., 3·2 mm. diameter, 9 cm. long, complete with stainless steel stilette, each

V2982 Ditto .. 2·6 mm. diameter, 6 cm. long .. .. each



V2983

V2983 JEFFERSON'S VENTRICULAR CANNULA, silver, graduated in cms., with stilette and tubing mount, 2 mm. diameter, three lengths: 5 cm., 8 cm. and 10 cm., each



V2984

Cat. No.

V2984 SLOAN ROBERTSON'S VENTRICULAR CANNULA, silver plated, graduated in cms., 2 mm. diameter, 7 cm. long, with sliding guard, stilette, silicone rubber connector and Record fitting mount .. .. each



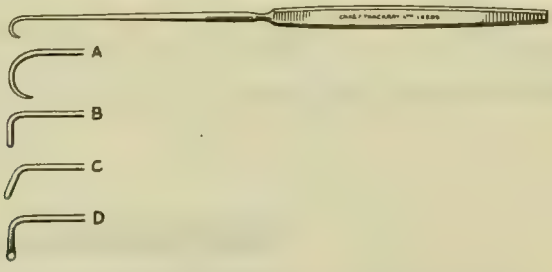
V2985

V2985 SLOAN ROBERTSON'S BRAIN CANNULA, silver, 2 mm. diameter, five lengths: 3 cm., 4 cm., 5 cm., 6 cm. and 7 cm. long.. .. .. each



V2986

V2986 PURVES-STEWART'S NEEDLE, for cisternal puncture, stainless steel shaft 17 B.W.G. by 9 cm. long, graduated to 5 cm., Record fitting mount, complete with obturator .. .. each



V2987–91

V2987 ADSON'S NERVE HOOK, sharp (A), stainless steel .. .. each

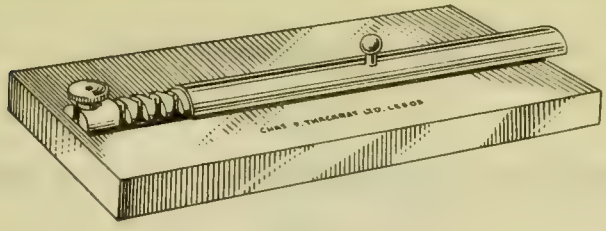
*V2988 Ditto .. blunt .. .. each

V2989 Ditto .. blunt right-angled (B) .. .. each

V2990 Ditto .. blunt oblique angle (C) .. .. each

V2991 Ditto .. Aneurysm Needle (D) .. .. each

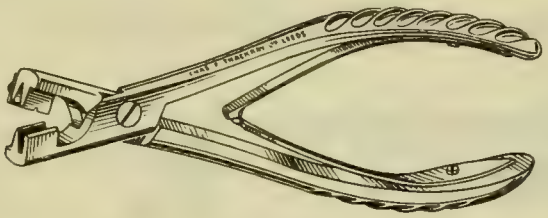
**Not illustrated.*



V2992

Cat. No.

V2992 McKENZIE'S SCALP CLIP CARRIER, heavy base with sliding cover, chromium plated .. .. each

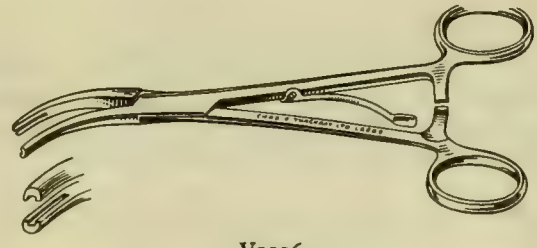


V2993

V2993 McKENZIE'S FORCEPS for shaping and cutting silver wire into clips, screw joint, 6 in., stainless steel .. .. each

*V2994 SILVER WIRE, flattened (approx. 70 x 6 in. lengths per oz.) .. per oz.

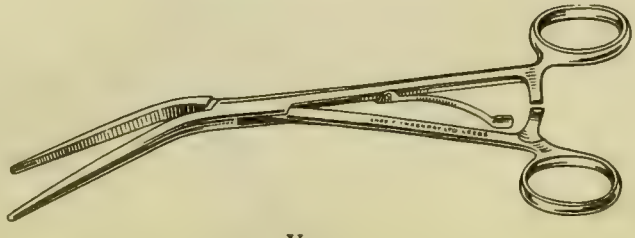
V2995 TANTALUM CLIPS, in phials of 100 clips .. .. .. per phial



V2996

V2996 McKENZIE'S CLIP INTRODUCING FORCEPS, curved-on-flat, box joint, 5¾ in., stainless steel .. .. each

9 in. long: page V546.



V2997

V2997 McKENZIE'S CLIP INTRODUCING FORCEPS, with angled 2⅜ in. jaws, stainless steel .. .. each

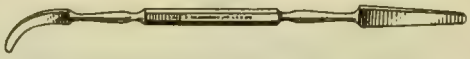
**Not illustrated*



V2998

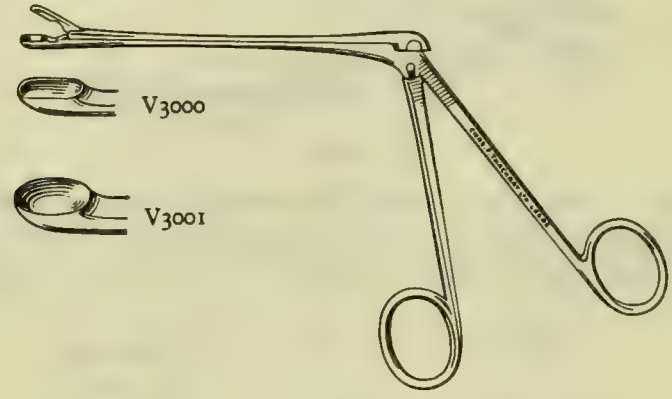
Cat. No.

V2998 LEUCOTOME, as used at the General Infirmary at Leeds, $7\frac{3}{4}$ in., stainless steel, each



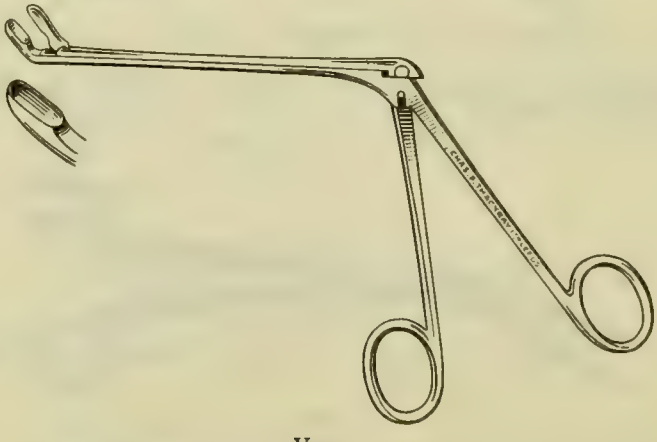
V2999

V2999 HARVEY JACKSON'S LEUCOTOME 8 in., stainless steel .. .. each



V3000 CAIRNS-CUSHING'S PITUITARY BODY FORCEPS, straight, stainless steel, three sizes: 3 mm., 4 mm. and 5 mm. wide .. .. .. each

V3001 Ditto .. extra large jaw, as used by Norman Dott, one size .. each



V3002

V3002 CAIRNS-CUSHING'S PITUITARY BODY FORCEPS, angled-upwards, stainless steel, three sizes: 3 mm., 4 mm. and 5 mm. .. .. .. each

Pages 563 to 622

PLASTIC SURGERY AND DENTAL INSTRUMENTS

ARE NOW ILLUSTRATED IN A NEW SECTION AT THE END OF THE CATALOGUE AFTER THE GENERAL INDEX

Pages 563 to 622

PLASTIC SURGERY
AND
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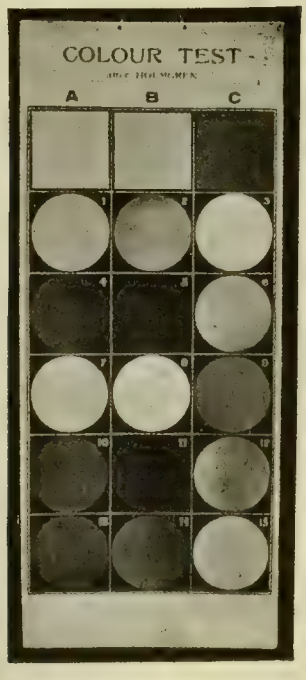


O3289

Cat No.

O3289 HOLMGREN'S WOOL TEST, with directions, in cardboard box .. each

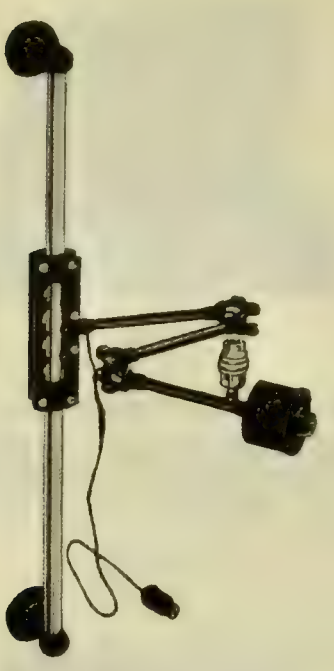
The classic test for deficiencies of colour vision is still widely applicable on account of its simplicity and low price. It consists of 43 skeins of wool securely attached to metal bound labels. Three skeins are for matching and there are 40 test skeins marked with a simple code.



O3290

†O3290 HOLMGREN'S COLOUR BLINDNESS TEST TYPE, mounted on stout cardboard, size 21 in. by 10 in. .. .. each

†Directions are printed on reverse side of card.



O3291

Cat. No.

O3291 "MOORFIELDS" OPHTHALMIC BRACKET, 24 in. vertical movement, adjustable laterally with three arms and fitted with rheostat for variation of light, *without lamp* .. .. each

O3292 Ditto .. three arms, without rheostat .. .. each

O3293 Ditto .. two arms, with rheostat .. .. each

O3294 Ditto .. two arms, without rheostat .. .. each

O3295 Ulster Type Lamp for above, silvered, with apertures, 60W, *please state voltage*, each



O3296

O3296 LENS MEASURE, three models: for measuring to 10 dioptres, to 15 dioptres and to 20 dioptres .. .. each



O3297

Cat. No.

O3297 TRIAL CASE, RETINOSCOPY, flat oak case, fitted with mounted Spheres as below .. .. complete

Contents:
24 each Spheres, convex and concave, 0·25, 0·5, 0·75, 1·0, 1·25, 1·5, 1·75, 2·0, 2·25, 2·5, 2·75, 3·0, 3·25, 3·5, 4·0, 4·5, 5·0, 5·5, 6·0, 7·0, 8·0, 9·0, 10·0, 12·0 dioptres.



O3298

O3298 TRIAL CASE, "The Popular", with removable lens tray and lift-off sunk panel lid. In polished mahogany case with lock and key. Lens powers boldly engraved on ivorine .. .. complete

Contents:
30 pairs Spherical Lenses, each convex and concave: 0·12, 0·25, 0·50, 0·75, 1·00, 1·25, 1·50, 1·75, 2·00, 2·25, 2·50, 2·75, 3·00, 3·50, 4·00, 4·50, 5·00, 5·50, 6·00, 7·00, 8·00, 9·00, 10·0, 11·0, 12·0, 13·0, 14·0, 16·0, 18·0, 20·0 dioptres.
19 pairs Cylinder Lenses, each convex and concave: 0·12, 0·25, 0·50, 0·75, 1·00, 1·25, 1·50, 1·75, 2·00, 2·25, 2·50, 2·75, 3·00, 3·50, 4·00, 4·50, 5·00, 5·50, 6·00 dioptres.
10 Prisms: ½, 1, 2, 3, 4, 5, 6, 8, 10, 12 dioptres.
9 Accessories: Maddox multiple Rod or Groove, Blank Disc, Pinhole, Stenopaic Slit, Red Glass, Green Glass, Crossline, Ground Glass and Plane Glass Discs. Total, 215 Lenses and Accessories.
1 Adjustable Trial Frame.



Cat. No. O3299

O3299 TRIAL CASE, "The Student", a small but very useful set compiled for those who do not require the larger range of lenses. In polished mahogany case with lock and key (lens tray is not removable). Lens powers boldly engraved on ivorine, complete

Contents:

21 pairs Spherical Lenses, each concave and convex: 0·25, 0·50, 0·75, 1·00, 1·25, 1·50, 1·75, 2·00, 2·25, 2·50, 2·75, 3·00, 3·50, 4·00, 5·00, 6·00, 7·00, 8·00, 10·0, 13·0, 16·0 dioptres.

9 pairs Cylinder Lenses, concave and convex: 0·25, 0·50, 0·75, 1·00, 1·50, 2·00, 2·50, 3·00, 4·00 dioptres.

3 Prisms: 2, 4, 6 dioptres.

6 Accessories: Maddox multiple Rod or Groove, Blank Disc, Pinhole, Stenopaic Slit, Red Glass and Green Glass. Total, 129 Lenses and Accessories.

1 3-cell Trial Frame.



O3300

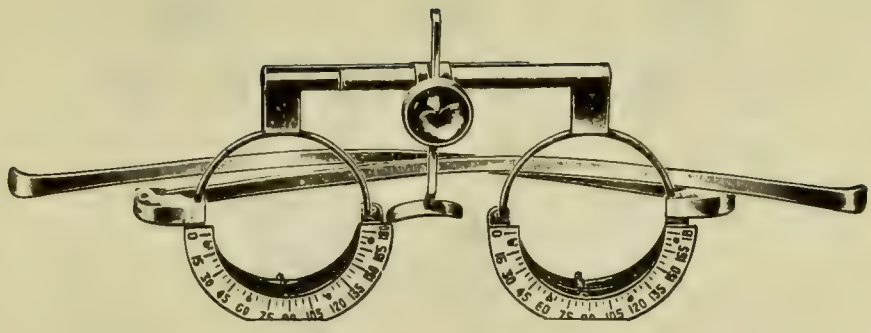
O3300 "THE CROYDONIAN" TRIAL FRAME. In producing this Trial Frame an endeavour has been made to utilise only the most useful and practical features from the many useful suggestions received for improvements to trial frames. This combination has resulted in a trial frame which is ideal, and will satisfy the requirements of the practitioner .. .. each

SPECIAL FEATURES

Independent P.D. adjustment.
Bridge adjustable for height and depth
Self-angling bridge.
Adjustable sides with im-shell skul-fit ends.
Angling sides.
Spring joints allowing sides to grip the head.
Scale for reading distance between cornea and lens.
Rotary cells for holding cylinder lenses.
Machine-cut gears in hard nickel.
Duralumin combining strength and lightness used wherever possible.
Weight approximately 2½ ozs.
Suitable for all 38 mm. diam. Trial Lenses.

*O3301 Ditto .. without angling sides .. .. each

**Not illustrated*



O3302

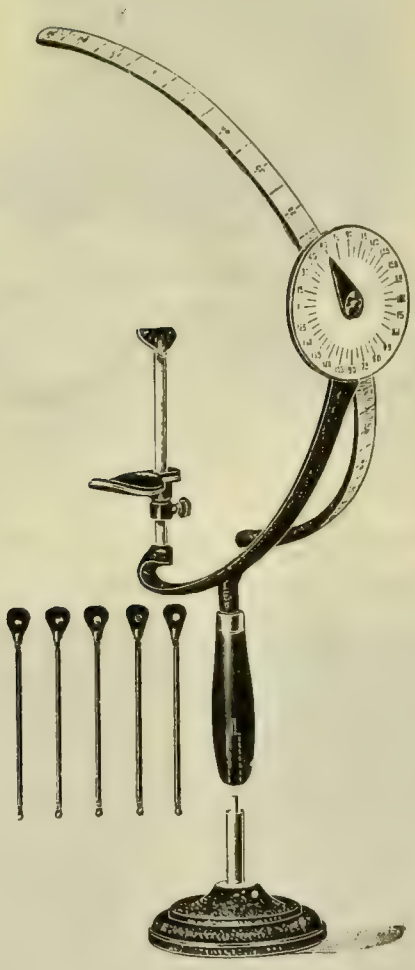
Cat. No.

O3302 IMPROVED "MOORFIELDS" TRIAL FRAME, very rigidly constructed, holds six lenses in cells of skeleton construction, the single central screw adjustment serves for altering pupillary distance and height and depth of bridge. It is fitted with light, springy, stainless steel sides, and the frame is made to hold 38 mm. trial lenses, scales engraved on ivorine .. .. each



O3303

O3303 LIGHT-WEIGHT ADJUSTABLE TRIAL FRAME, sliding bar, ivorine axis scales, to hold six lenses .. .. each



O3304-5

Cat. No.		
O3304	HAND PERIMETER, with chin rest	each
O3305	HAND and STAND PERIMETER, with chin rest	each
O3306	HAND PERIMETER, without chin rest	each
O3307	HAND and STAND PERIMETER, without chin rest	each
O3308	Charts for use with above, books of a hundred	per book

An improved design, the quadrant has a radius of one-fifth of a metre. The chin rest adjustable for height, also for right and left eye, fixes the instrument steady when held by the patient.

Constructed of aluminium, the handle is in a position giving perfect balance.

The colours red, green, blue, yellow and white are 5 mm. and 10 mm. diameter, mounted on either side of permanently fixed carriers.

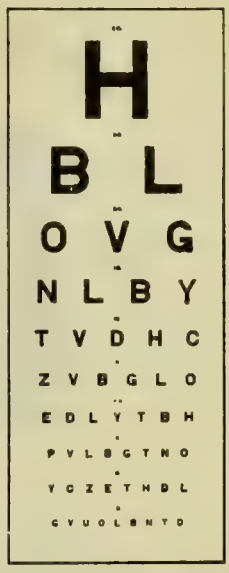
This perimeter is made for hand use; or with heavy base for table use. Finished black crystalline enamel.



O3309



O3311



O3313

Cat No.

†O3309 DISTANCE TEST TYPES, B, U, H, etc., mounted on strong cardboard, each

†O3310 Ditto .. washable .. .. each

†O3311 DISTANCE TEST TYPES, G, N, V, etc., mounted on stout cardboard, each

†O3312 Ditto .. washable .. .. each

†O3313 DISTANCE TEST TYPES, H, B, L, etc., mounted on stout cardboard, each

†O3314 Ditto .. washable .. .. each

†*Can be supplied with reversed letters at same prices.*

The series O3309 to O3314 comprise an entirely new departure in letterings and embody the following improvements:

The types are printed by means of offset lithography giving a much finer result than the usual letterpress printing from blocks.

They are printed on offset cartridge paper with a dead matt surface which provides the greatest possible contrast.

Non-serif letters are used in accordance with modern practice, which more closely resemble the style of letters in daily use, rather than the old type of Snellen.

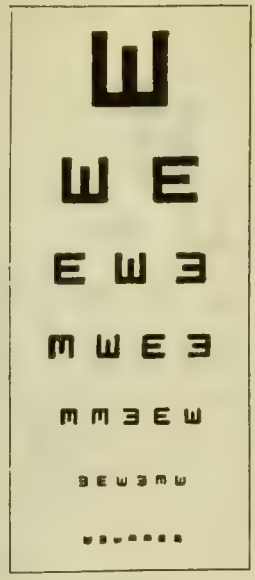
Two 6/6 lines are provided as opticians mostly work on this line and consequently find the 6/6 letters rapidly become memorised.

A 6/5 line is provided with the double object of enabling visual acuity below 6/6 to be measured and to provide a "Normal Vision" when testing is carried out at a five metre distance. No smaller lines are provided because it is considered to be a disadvantage for small letters to be present on a chart which a patient cannot possibly be made to read.

Size of Types is approximately 25 in. by 9½ in.



O3315



O3317

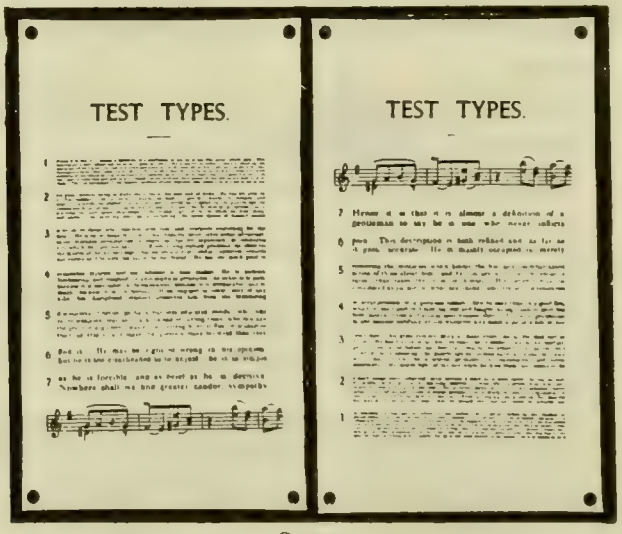
Cat. No.

O3315 DISTANCE TEST TYPE, for children and illiterates, size 25 in. by 9½ in., 60 metres to 6 metres, mounted on stout cardboard .. .. .. each

O3316 Ditto .. washable .. .. each

O3317 DISTANCE TEST TYPE, for illiterates, Bishop Harman's, 50 metres to 6 metres, size 25 in. by 9½ in., mounted on stout cardboard .. .. each

O3318 Ditto .. washable .. .. each

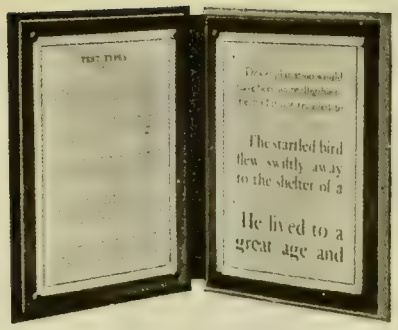


O3319

O3319 READING TEST TYPE, folding dark green cover, washable, size 11 in. by 9½ in. when open .. .. each

*O3320 REID'S READING TEST TYPE, music and time-table, stout cardboard, size: 16½ in. by 11½ in. when open .. .. each

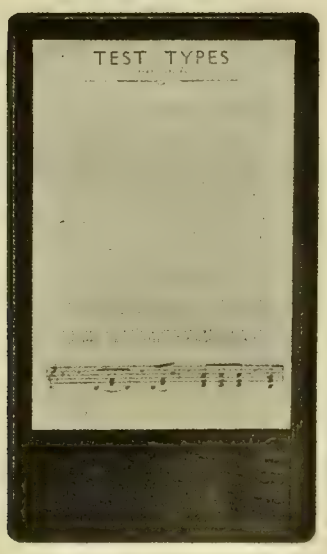
Not illustrated



O3321

Cat. No.

O3321 READING TEST TYPE, book form, washable, size when open 9 in. by 6½ in., each
As approved by The Faculty of Ophthalmologists, London, England.



O3322

O3322 READING TEST TYPE, oak, double sided, size 10 in. by 6 in. .. each

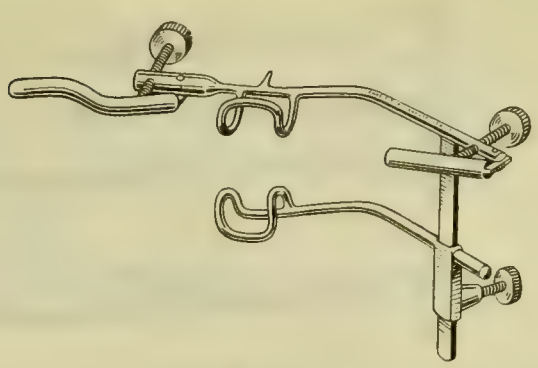


O3323A

Cat. No.

O3323A	ROTATING TEST TYPE, hand operation, externally illuminated ..	each
O3323B	Ditto .. remote control	each
	Extras:	
O3325A	"Friend test"	each
O3325B	Durochrome letter test	each
O3325C	Worth's 4-dot test	each
O3326A	Horizontal Phoria test	each
O3326B	Vertical Phoria test	each
O3326C	Variable aperture to spotlight	each

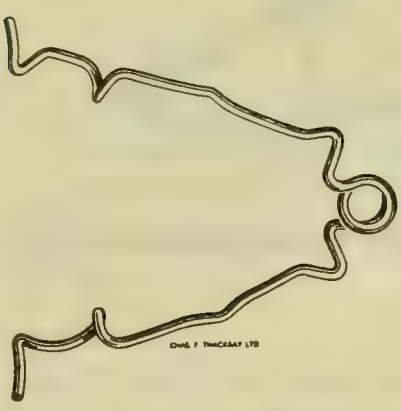
The Rotating Test Type, wall bracket model, four-sided, provides in compact form a comprehensive series of charts which are externally illuminated. With the lower section of the chart panel the lighting is internal and a spotlight is fitted as standard. The other three panels can be fitted with the alternative accessories detailed above.



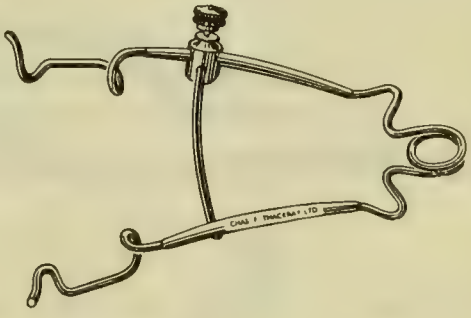
O3327

Cat. No.

O3327 ARRUGA'S EYE SPECULUM, with screw adjustments for raising the lid from the eyeball, gilt, two patterns: right and left .. .. .. each



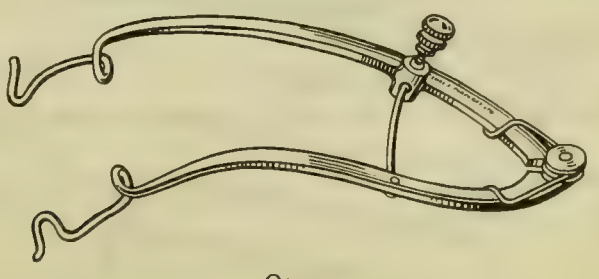
O3328



O3329

O3328 BOWMAN'S EYE SPECULUM, gilt .. .. each

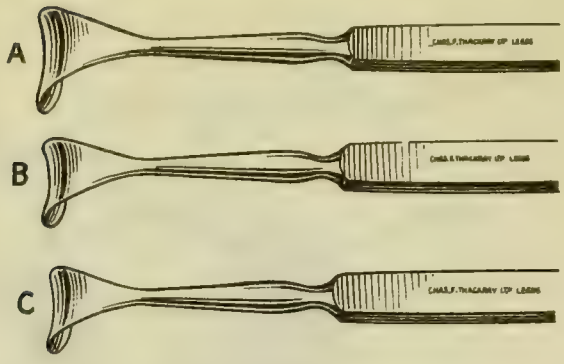
O3329 BOWMAN'S EYE SPECULUM, with fixing screw, gilt, two patterns: right and left .. .. each



O3330

O3330 CLARK'S EYE SPECULUM, gilt, two patterns: right and left .. each

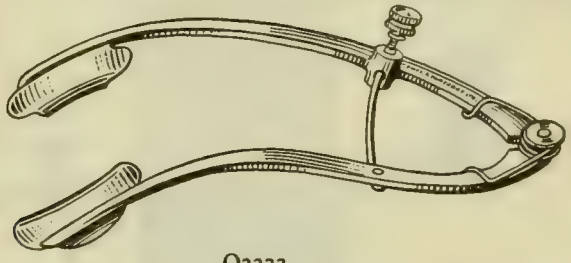
O3331 Ditto .. small size: right and left .. .. each



O3332

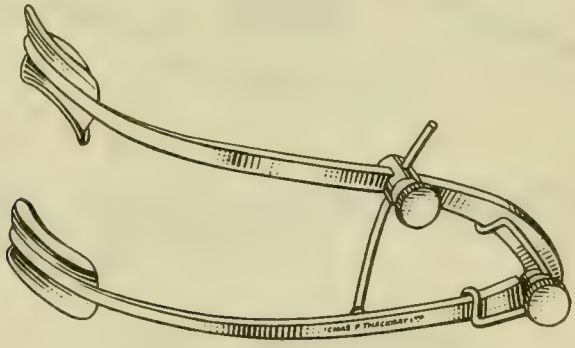
Cat. No.

O3332 DESMARRES' EYELID RETRACTOR, stainless steel, three sizes: A, B and C, each



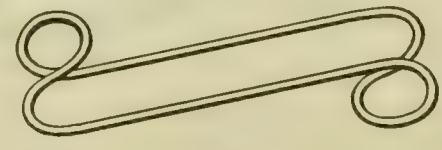
O3333

O3333 LANG'S EYE SPECULUM, with solid blades, gilt, two patterns: right and left, each



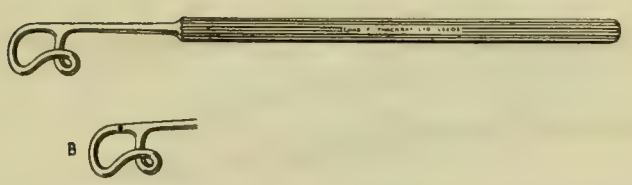
O3334

O3334 LISTER'S EYE SPECULUM, with guards on blades, gilt, two patterns: right and left .. .. each



O3335

O3335 PELLIER'S EYELID RETRACTOR, double-ended, stainless steel .. each

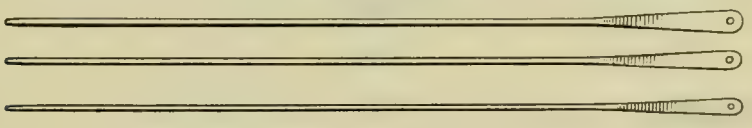


O3337 O3336

Cat. No.

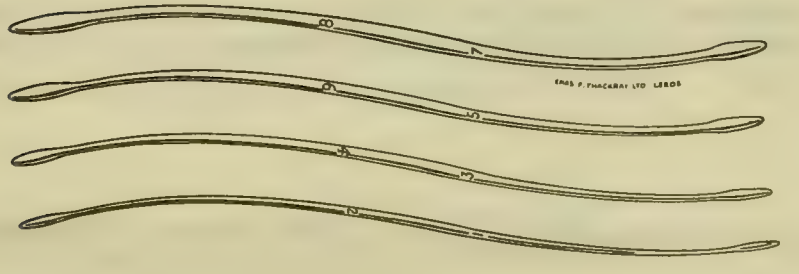
O3336 TERSON'S EYELID RETRACTOR (A), stainless steel, two patterns: right and left .. .. each

O3337 Ditto .. FOSTER'S modification (B), *with hole for suturing the lid edge to the instrument when used for Blaskovic's resection of the levator palpebrae for ptosis*, each



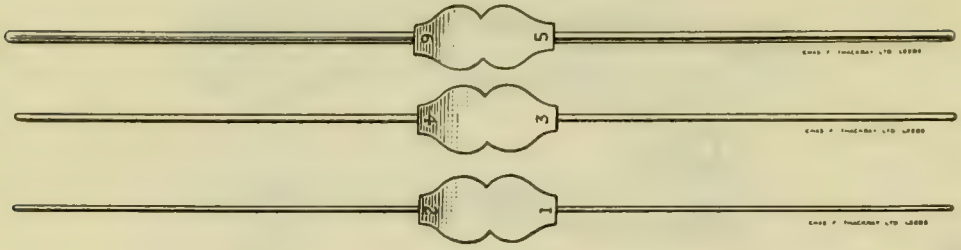
O3338

O3338 ANEL'S LACHRYMAL PROBES, set of three, silver .. .. per set



O3339

O3339 BOWMAN'S LACHRYMAL PROBES, set of four, silver plated .. per set



O3340

Cat. No.

O3340 LIEBREICH'S LACHRYMAL PROBES, set of three, silver .. per set



O3341

O3341 NETTLESHIP'S CANALICULUS DILATOR, silver plated .. each



O3342



O3343

O3342 SINCLAIR'S CYCLODIALYSIS SPATULA, graduated, stainless steel, each
O3343 HUDSON'S LACHRYMAL SAC KNIFE, nickel plated .. .. each

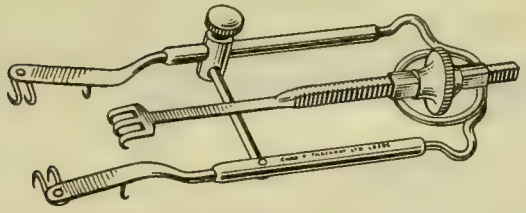


O3344



O3345

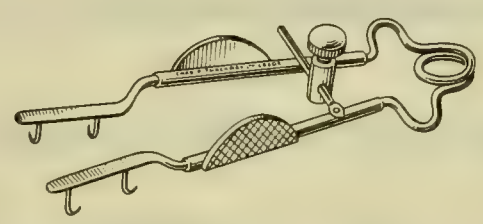
O3344 TWEEDY'S CANALICULUS KNIFE, nickel plated .. .. each
O3345 WEBER'S CANALICULUS KNIFE, nickel plated .. .. each



O3346

Cat. No.

O3346 BISHOP HARMAN'S LACHRYMAL RETRACTOR, with adjustable centre blade, gilt .. .. each



O3347

O3347 MÜLLER'S LACHRYMAL RETRACTOR, gilt .. .. .. each



O3348



O3349

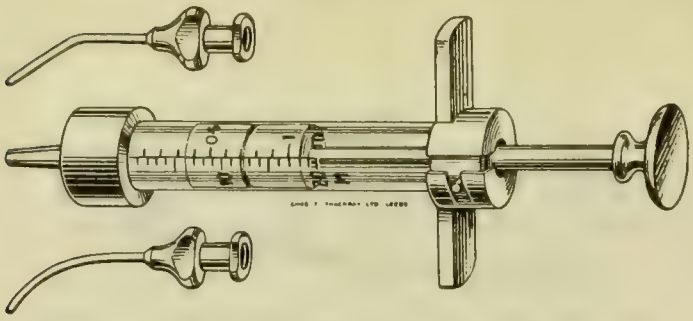
O3348 ROLLET'S LACHRYMAL RETRACTOR, stainless steel .. .. each

O3349 ROLLET'S LACHRYMAL RUGINE, stainless steel .. .. each



O3350

O3350 LANG'S LACHRYMAL SPOON AND DISSECTOR, stainless steel each

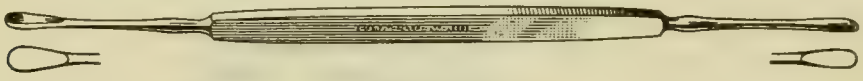


O3351

Cat. No.

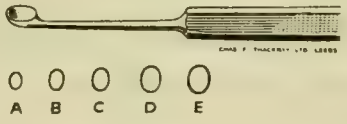
O3351 LACHRYMAL SYRINGE, 1 ml. 20 min., with one of each angled and curved silver pipes, in chromium plated case .. .. .. complete

O3352 Spare Lachrymal Pipes, silver, two patterns: angle and curved .. each



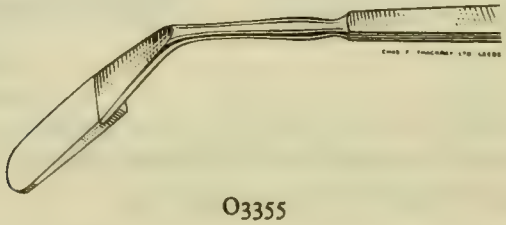
O3353

O3353 CROSS' MEIBOMIAN CYST CURETTE, double-ended, stainless steel, each



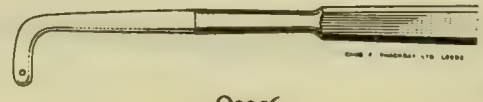
O3354

O3354 MEIBOMIAN CYST CURETTE, stainless steel, five sizes: A, B, C, D and E, each



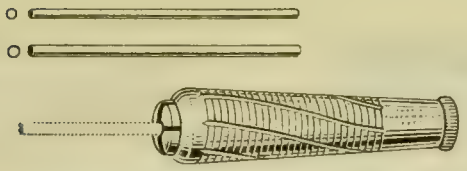
O3355

O3355 GUIST'S DEPRESSOR, stainless steel with insulated blade .. .. each



O3356

O3356 HINE'S MUSCLE HOOK, stainless steel with insulated blade .. each



O3357

Cat. No.

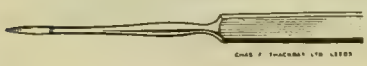
O3357 ELLIOT'S SCLERECTOMY TREPHINE, with one of each 1·5 mm. and 2 mm. diameter stainless steel blades, aluminium handle fitted with chuck complete

O3358 Blades only, 1·5 and 2 mm. diameter, stainless steel .. .. .. each



O3359

O3359 LANG'S SCLERECTOMY TREPHINE, with obturator, stainless steel, two sizes: 1·5 mm. and 2 mm. diameter .. .. each



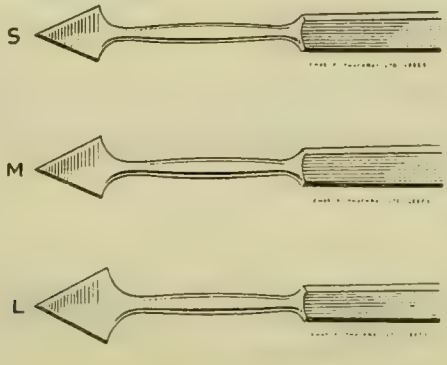
O3360



O3361

O3360 LANG'S ANTERIOR SYNECHIA KNIFE, with sharp point, nickel plated, each

O3361 Ditto .. with round point .. .. each



O3362

O3362 JAEGER'S IRIDECTOMY KNIFE, straight, nickel plated, three sizes: small, medium and large .. .. each

O3363 Ditto .. angled blade .. .. each

OPHTHALMIC INSTRUMENTS



O3364



O3365

Cat. No.

O3364 ZIEGLER'S IRIDOTOMY KNIFE, nickel plated, three sizes: 5 mm., 6 mm. and 7 mm. length of blade .. .. each

O3365 CRITCHETT'S PTERYGIUM KNIFE, nickel plated .. .. each



O3366



O3367

O3366 LANG'S CORNEAL SPLITTING KNIFE, nickel plated .. .. each

O3367 TOOKE'S CORNEAL SPLITTING KNIFE, nickel plated .. each



O3368



O3369

O3368 ZIEGLER'S CAPSULOTOMY KNIFE, nickel plated .. .. each

O3369 TYRRELL'S IRIS HOOK, stainless steel .. .. .. each



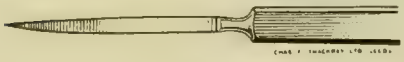
O3370



O3371

O3370 NETTLESHIP'S IRIS REPOSITOR, silver blade, silver plated handle, each

O3371 LENS HOOK, stainless steel .. .. each



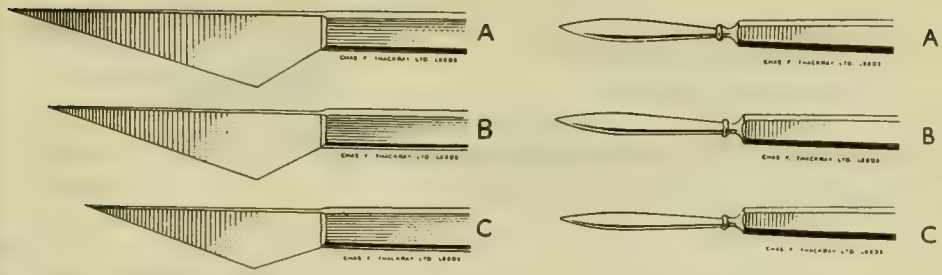
O3372



O3373

O3372 GRAEFE'S CATARACT KNIFE, nickel plated .. .. .. each

O3373 Ditto .. narrow blade .. .. each



O3374 O3375

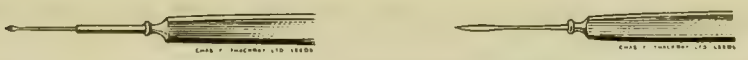
Cat. No.

O3374 BEER'S CATARACT KNIFE, nickel plated, three sizes: A, B and C .. each
O3375 BROAD NEEDLE, nickel plated, three sizes: A, B and C .. .. each



O3376 O3377

O3376 SMITH'S CATARACT KNIFE, nickel plated .. .. .. each
O3377 BEER'S CATARACT NEEDLE, nickel plated .. .. .. each



O3378 O3379

O3378 BOWMAN'S CATARACT NEEDLE, with stop, nickel plated .. each
O3379 "MOORFIELDS" CATARACT NEEDLE, nickel plated .. .. each



O3380 O3381

O3380 SAUNDERS' CATARACT NEEDLE, nickel plated .. .. each
O3381 GRAEFE'S CYSTITOME, nickel plated .. .. each



O3382



O3383

Cat. No.

O3382 "MOORFIELDS" CYSTITOME, nickel plated .. .. .. each
O3383 "MOORFIELDS" CURETTE, stainless steel .. .. .. each



O3384



O3385

O3384 SNELLEN'S VECTIS, stainless steel .. .. each
O3385 TAYLOR'S VECTIS, stainless steel .. .. each

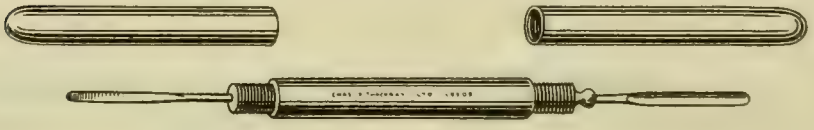


O3386



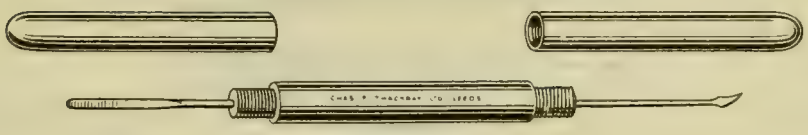
O3387

O3386 "BIRMINGHAM" PATTERN FOREIGN BODY NEEDLE, nickel plated, each
O3387 FOREIGN BODY GOUGE, stainless steel .. .. .. each



O3388

O3388 WALTON'S EYE SPUD and GOUGE, stainless steel, chromium plated screw-on case .. .. each



O3389

Cat. No.

O3389 WALTON'S EYE SPUD and NEEDLE, stainless steel, chromium plated screw-on case .. .. each



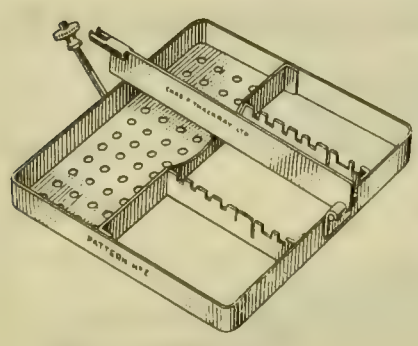
O3390



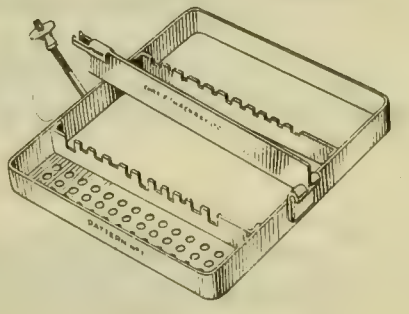
O3391

O3390 WALTON'S EYE SPUD, stainless steel .. .. each

O3391 BISHOP HARMAN'S EYE SPUD, stainless steel .. .. .. each



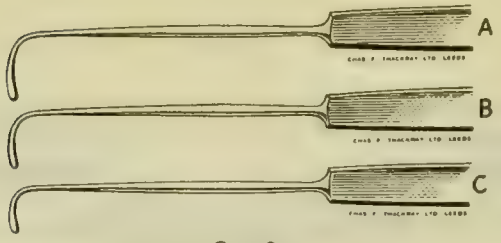
O3392



O3393

O3392 FOSTER'S STERILIZER TRAY, No. 1, for squint instruments, chromium plated .. .. each

O3393 Ditto .. No. 2, for cataract instruments .. .. each



O3398

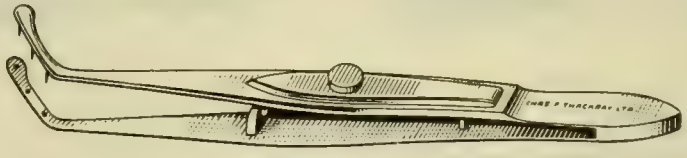
Cat. No.

O3398 GRAEFE'S STRABISMUS HOOK, stainless steel, three sizes: A, B and C, each



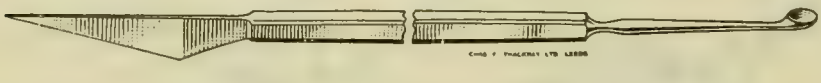
O3399

O3399 LANG'S STRABISMUS HOOK, flattened stainless steel .. .. each



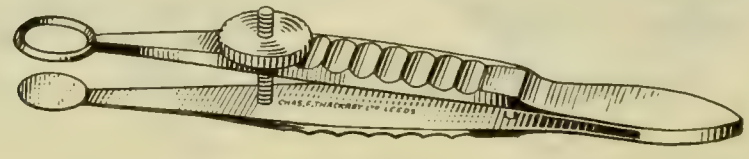
O3400

O3400 PRINCE'S STRABISMUS FORCEPS, stainless steel, two patterns: right and left .. .. each



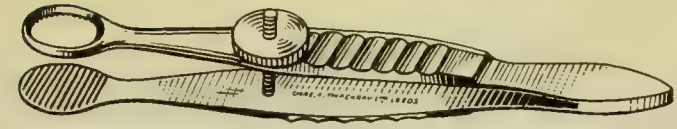
O3401

O3401 MacGILLIVRAY'S TARSAL CYST KNIFE and SPOON, nickel plated, each



O3402

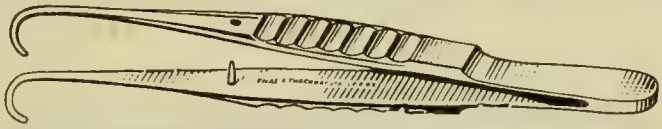
O3402 AYER'S or "VIENNA PATTERN" TARSAL CYST FORCEPS, stainless steel, each



O3403

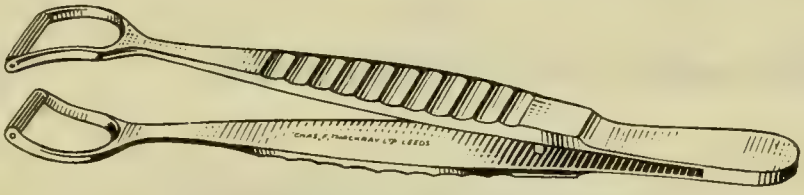
Cat. No.

O3403 GREENE'S TARSAL CYST FORCEPS, stainless steel .. .. each



O3404

O3404 GRADDY'S TRACHOMA FORCEPS, stainless steel, two sizes: small and large, each



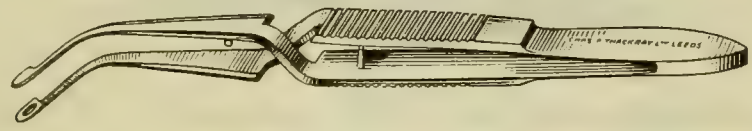
O3405

O3405 KNAPP'S TRACHOMA FORCEPS, stainless steel .. .. each



O3406

O3406 ARRUGA'S CAPSULE FORCEPS, stainless steel .. .. .. each



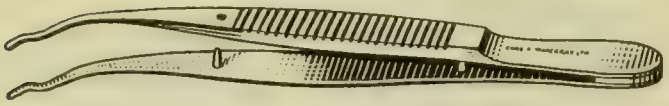
O3407

O3407 CASTROVIEJO'S CAPSULE FORCEPS, stainless steel .. .. each



O3408

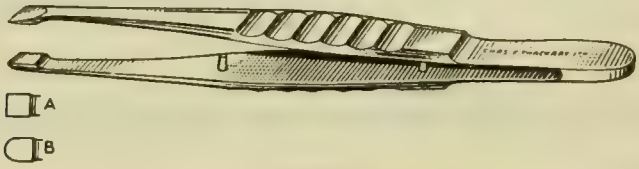
O3408 COUPER'S CAPSULE FORCEPS, stainless steel .. .. .. each



O3409

Cat. No.

O3409 ELSCHNIG'S CAPSULE FORCEPS, stainless steel .. .. each



O3410

O3410 CILIA FORCEPS, stainless steel, two patterns: A and B .. .. each



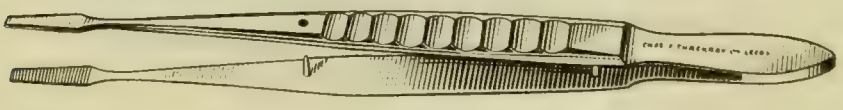
O3411

O3411 BENNETT'S CILIA FORCEPS, stainless steel .. .. .. each



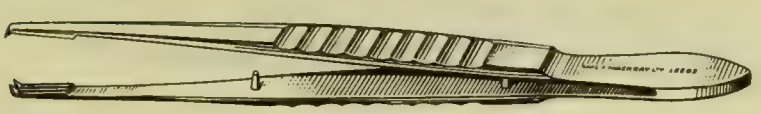
O3412

O3412 DYCE DUCKWORTH'S CILIA FORCEPS, stainless steel .. each



O3413

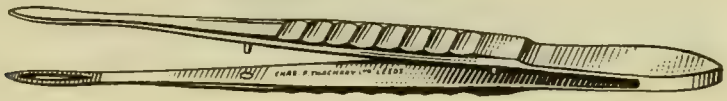
O3413 JAMESON EVANS' CILIA or SUTURE FORCEPS, stainless steel each



O3414

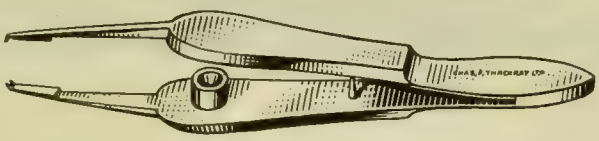
Cat. No.

O3414 LISTER'S SUTURE FORCEPS, stainless steel .. .. .. each



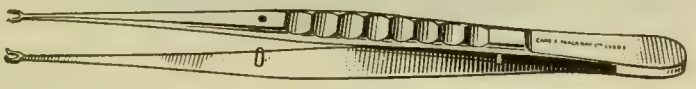
O3415

O3415 "MOORFIELDS" SUTURE FORCEPS, stainless steel .. .. each



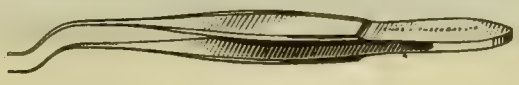
O3416

O3416 ST. MARTIN'S CORNEAL SUTURING FORCEPS, stainless steel each



O3417

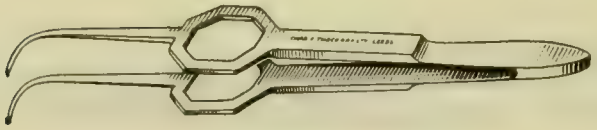
O3417 TRAQUAIR'S CORNEAL SUTURING FORCEPS, stainless steel .. each



O3418

O3418 BARRAQUER'S IRIS FORCEPS, stainless steel .. .. .. each

OPHTHALMIC INSTRUMENTS



O3419

Cat. No.

O3419 COOPER'S IRIS FORCEPS, stainless steel .. .. .. each



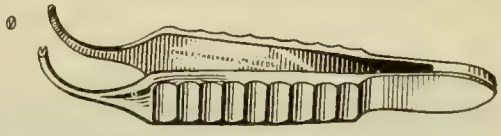
O3420

O3420 FISCHER-ARLT'S IRIS FORCEPS, stainless steel .. .. each



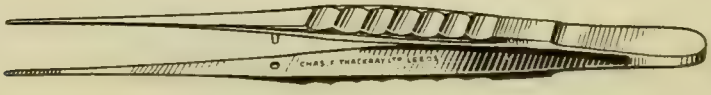
O3421

O3421 GRAEFE'S IRIS FORCEPS, straight, stainless steel .. .. each



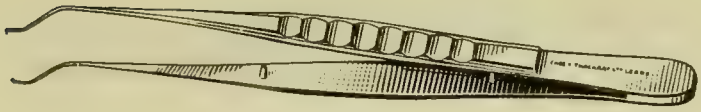
O3422

O3422 GRAEFE'S IRIS FORCEPS, curved, stainless steel .. .. each



O3423

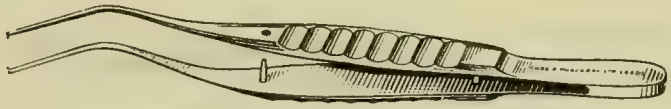
O3423 SILCOCK'S IRIS FORCEPS, non-toothed, stainless steel .. .. each



O3424

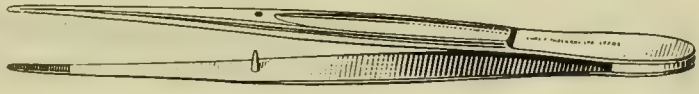
Cat. No.

O3424 TRAQUAIR'S IRIS FORCEPS, stainless steel .. .. .. each



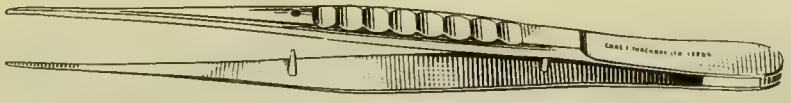
O3425

O3425 "SWAN NECK" IRIS FORCEPS, stainless steel .. .. .. each



O3426

O3426 EYE DISSECTING FORCEPS, non-toothed, stainless steel .. each



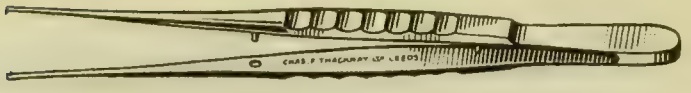
O3427

O3427 FIXATION FORCEPS, non-toothed, stainless steel .. .. each



O3428

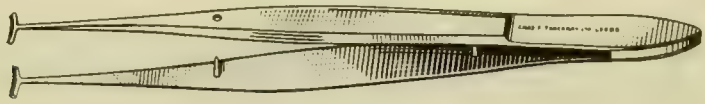
O3428 FIXATION FORCEPS, fine, toothed, stainless steel .. .. each



O3429

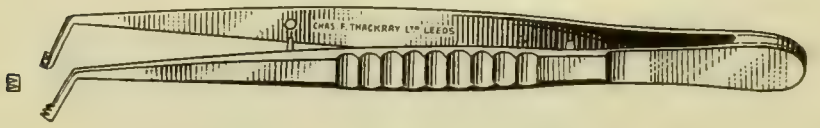
Cat. No.

O3429 FIXATION FORCEPS, extra fine, toothed, stainless steel .. .. each



O3430

O3430 BARRAQUER'S FIXATION FORCEPS, stainless steel .. .. each



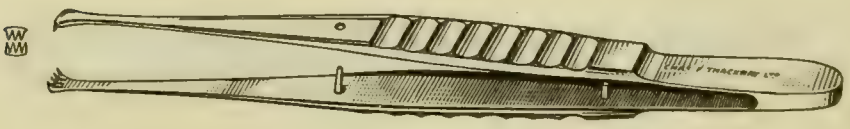
O3431

O3431 COLLEY'S FIXATION FORCEPS, stainless steel .. .. each



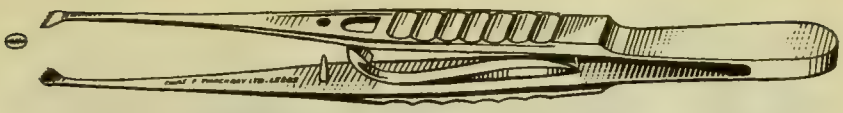
O3432

O3432 ELSCHNIG'S FIXATION FORCEPS, stainless steel .. .. each



O3433

O3433 FRENCH PATTERN FIXATION FORCEPS, stainless steel .. each



O3434

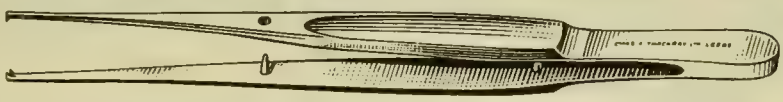
Cat. No.

O3434 GRAEFE'S FIXATION FORCEPS, with catch, stainless steel .. each
O3435 Ditto .. without catch .. .. each



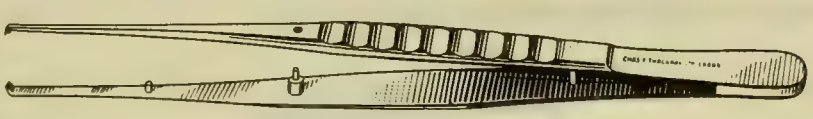
O3436

O3436 BISHOP HARMAN'S FIXATION FORCEPS, stainless steel .. each



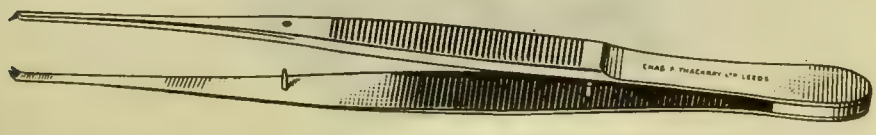
O3437

O3437 LANDOLT'S FIXATION FORCEPS, stainless steel .. .. each
O3438 Ditto .. curved .. .. each



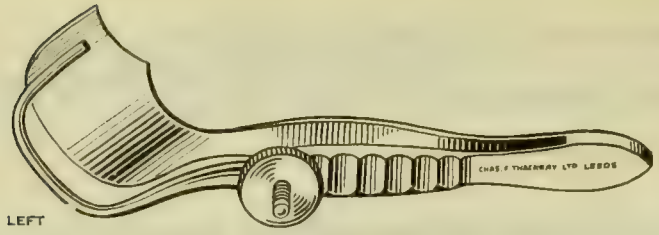
O3439

O3439 LANG'S FIXATION FORCEPS, with stop, stainless steel .. each



O3440

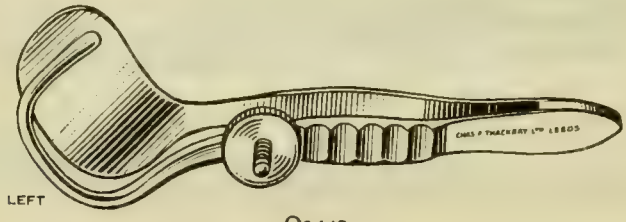
O3440 LAPERSONNE'S FIXATION FORCEPS, stainless steel .. .. each



O3441

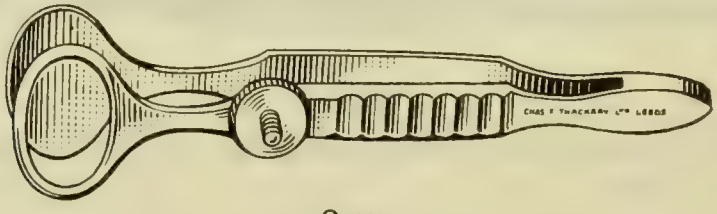
Cat. No.

O3441 DESMARRES' ENTROPIUM FORCEPS, stainless steel, two patterns: right and left .. .. each



O3442

O3442 SNELLEN'S ENTROPIUM FORCEPS, stainless steel, two patterns: right and left .. .. each



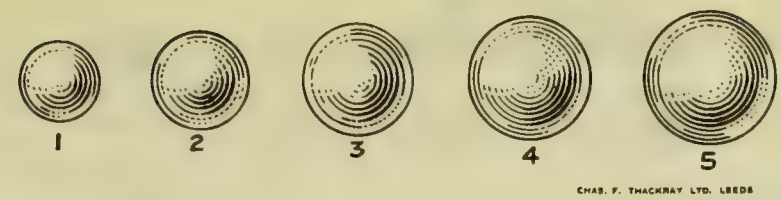
O3443

O3443 WILDE'S ENTROPIUM FORCEPS, stainless steel .. .. each



O3444

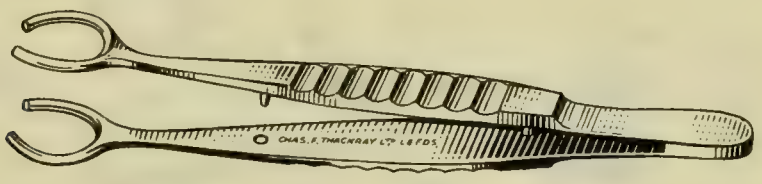
O3444 EYE MAGNET, consisting of: Magnetic bar and one of each bulbous and tapered ends, in leatherette-covered case .. .. complete



O3445

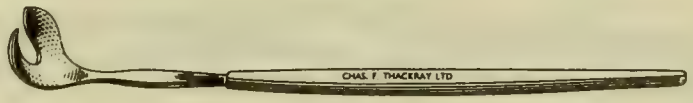
Cat. No.

O3445 MULES' ARTIFICIAL VITREOUS GLOBES, glass, five sizes: 1, 2, 3, 4 and 5, per doz.



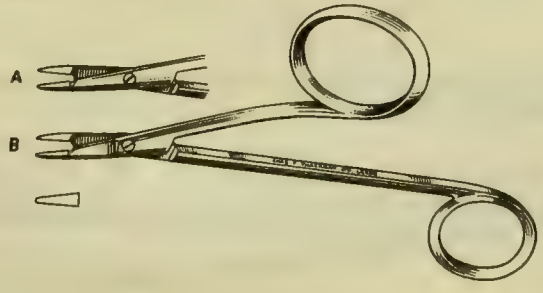
O3446

O3446 "MOORFIELDS" INTRODUCING FORCEPS, for vitreous globes, stainless steel .. .. each



O3447

O3447 TRELAT'S ENUCLEATION SPATULA, stainless steel .. .. each



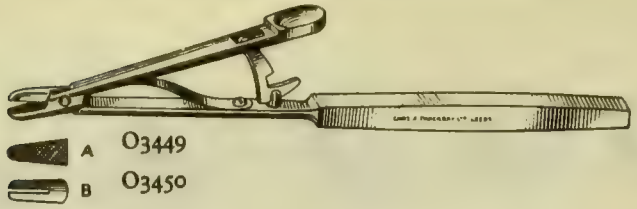
O3448A

O3448A FOSTER'S NEEDLE HOLDER only (A), stainless steel .. .. each

O3448B Ditto .. and Scissors (B) .. .. each

Can also be made for left-hand use

OPHTHALMIC INSTRUMENTS



O3449
O3450

Cat. No.

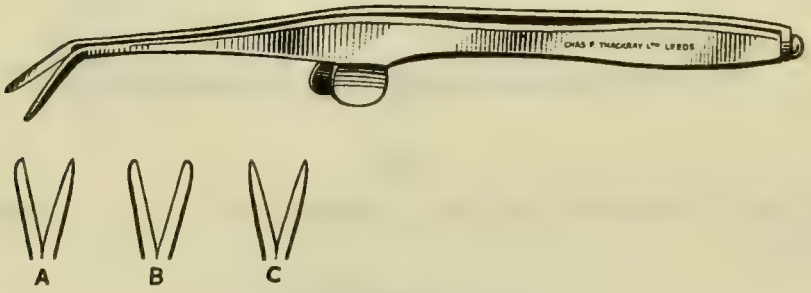
O3449 SILCOCK'S NEEDLE HOLDER, with serrated jaws (A), 5¼ in., stainless steel, each

O3450 Ditto .. with split, concave jaws (B) .. .. each



O3451

O3451 WRIGHT'S NEEDLE HOLDER, box joint, 5 in., stainless steel .. each



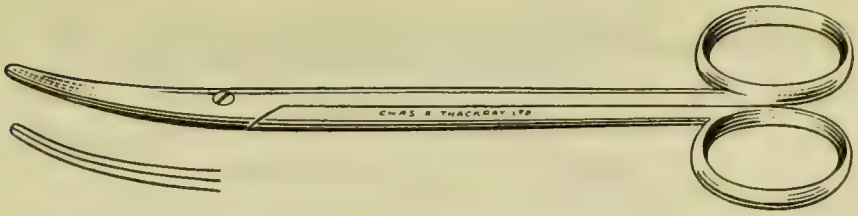
O3452

O3452 DE WECKER'S EYE SCISSORS, stainless steel, three patterns: blunt-sharp (A), blunt-blunt (B) and sharp-sharp (C) .. .. each



O3453

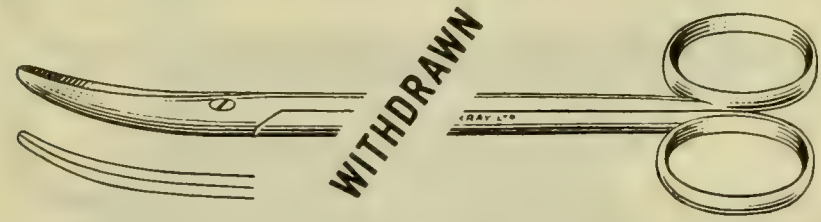
O3453 BISHOP HARMAN'S CONJUCTIVAL SCISSORS, stainless steel, each



O3454

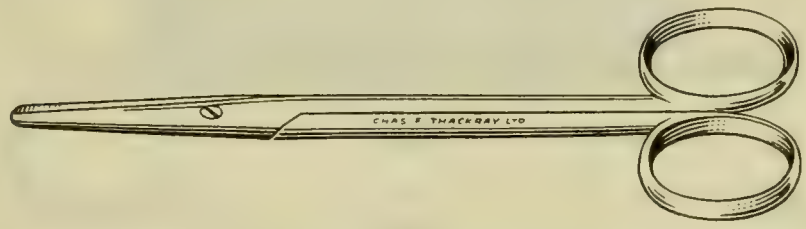
Cat. No.

O3454 EXCISION SCISSORS, curved-on-flat, stainless steel .. .. each



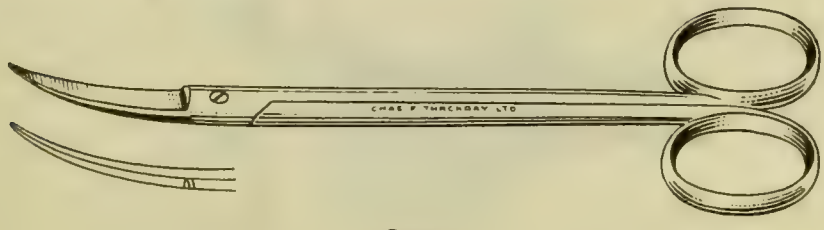
O3455

O3455 EXCISION SCISSORS, curved-on-flat, extra strong, stainless steel .. each



O3456

O3456 EXCISION SCISSORS, straight, strong, stainless steel .. .. each



O3457

O3457 IRIS SCISSORS, curved-on-flat, sharp, stainless steel .. .. each

*O3458 Ditto .. straight .. .. each

**Not illustrated*

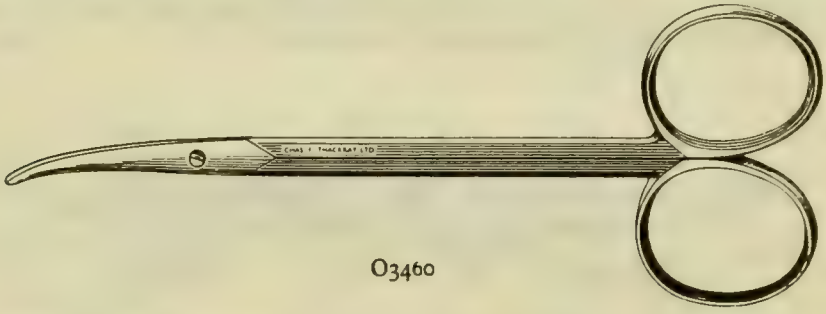
OPHTHALMIC INSTRUMENTS



O3459

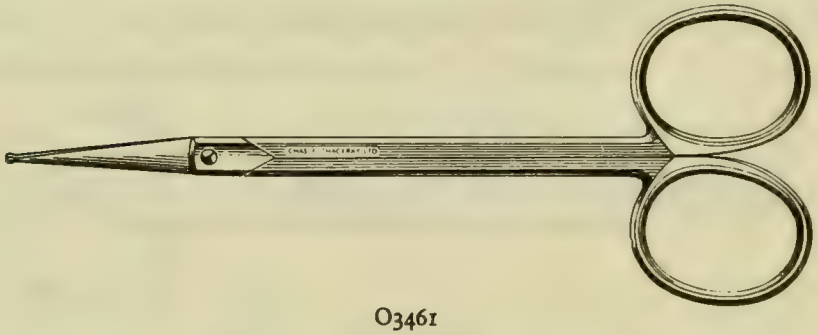
Cat. No.

O3459 STRABISMUS SCISSORS, straight, stainless steel .. .. .. each



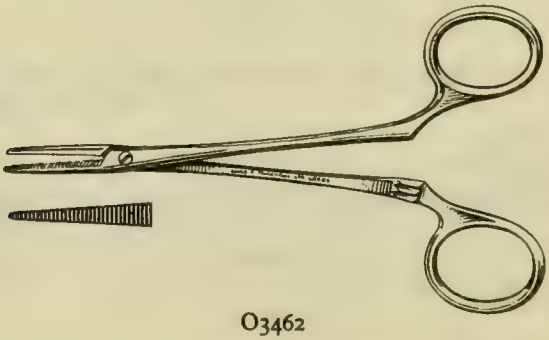
O3460

O3460 STRABISMUS SCISSORS, curved-on-flat, stainless steel .. .. each



O3461

O3461 BOWMAN'S STRABISMUS SCISSORS, probe-pointed, stainless steel each

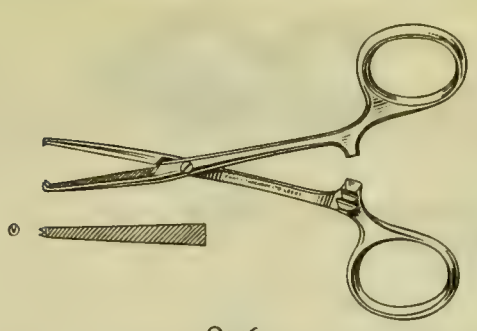


O3462

O3462 "FEATHERWEIGHT" HALSTED'S ARTERY FORCEPS, screw joint, $4\frac{1}{2}$ in., stainless steel .. .. each

*O3462A Ditto .. curved-on-flat .. .. each

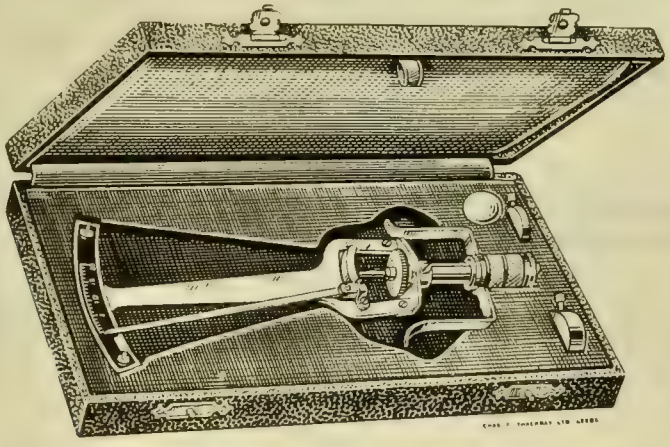
Not illustrated



O3463

Cat. No.

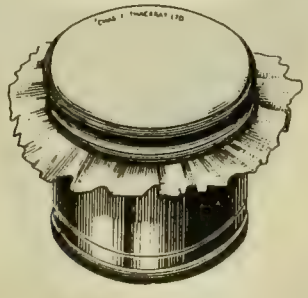
O3463 TERRIER'S ARTERY FORCEPS, screw joint, 3½ in., stainless steel .. each



O3464

O3464 SCHIÖTZ' TONOMETER, complete with weights and instruction card, in plush lined leatherette-covered case .. .. each

The above Schiötz' Tonometers are the original models, of foreign manufacture.



O3466-7

O3466 TRIAL DRUM, for testing eye knives, chromium plated, without kid .. each

O3467 Kid, for use with above, in pieces of approximately 6 in. by 6 in. .. each

**Not illustrated*

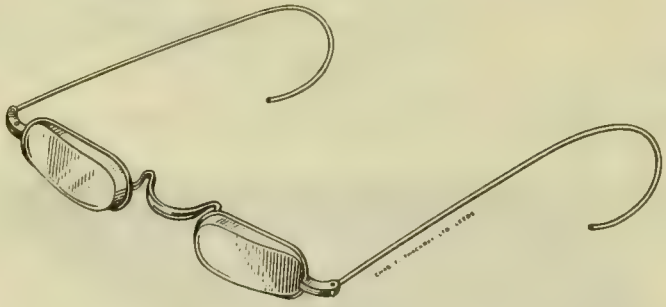
OPHTHALMIC INSTRUMENTS



O3468

Cat. No.

O3468 CORNEAL MAGNIFIER, folding, x5 magnification .. .. each
O3469 Ditto .. x8 magnification .. .. each



O3470

O3470 MAYOU TYPE BINOCULAR SPECTACLES, with elongated sphero-prisms which give a slightly larger lateral field (†working distance: 7 in.) .. each



O3471

O3471 BISHOP HARMAN'S BINOCULAR SPECTACLES (†working distance: 7 in.), each



O3472

O3472 BERGER'S BINOCULAR LOUPE (†working distance: 2½–3 in.) .. each

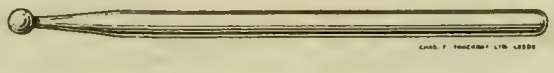
†*With normal eyesight or spectacles.*



O3473

Cat. No.

O3473 EYE ROD, glass .. .. each



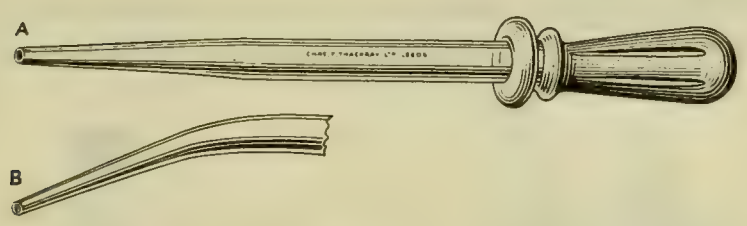
O3474

O3474 EYE ROD, glass .. .. each



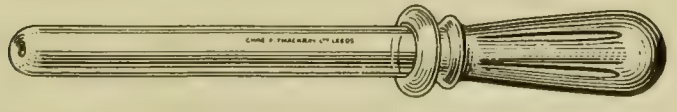
O3475

O3475 MOORFIELD'S PATTERN EYE ROD, double-ended, glass .. each



O3476–7

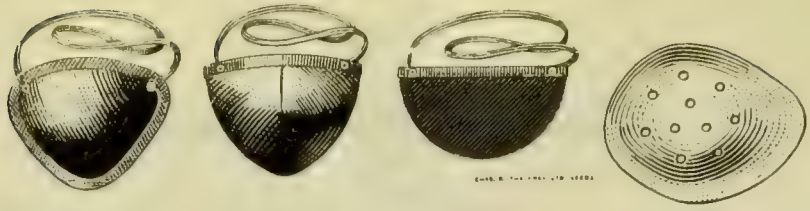
O3476 EYE DROPPER, glass, straight (A), with rubber teat .. .. each
O3477 Ditto .. curved (B) .. .. each



O3478

O3478 MOORFIELD'S DROPPER, glass, with rubber teat .. .. each

OPHTHALMIC INSTRUMENTS



O3479 O3480 O3481 O3482

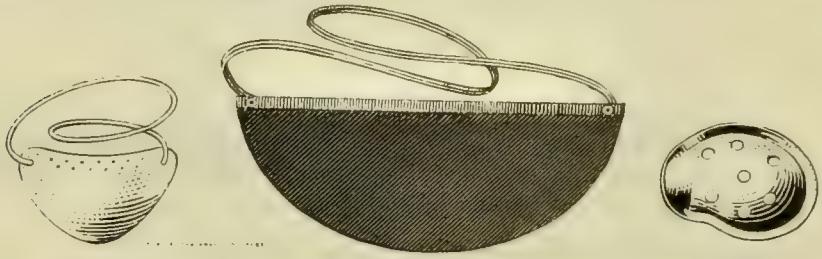
Cat. No.

O3479 EYE SHADE, with elastic headband, black silk covered, green inside, shaped, for either eye .. .. each

O3480 EYE SHADE, with elastic headband, black silk covered, green inside, cockle shaped, for either eye .. .. each

O3481 EYE SHADE, with elastic headband, black silk covered, green inside, flat, for either eye .. .. each

O3482 "CARTELLA" EYE SHADE, cardboard, non-coloured, perforated, shaped, two patterns: right and left .. .. each



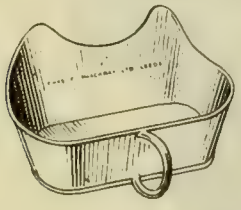
O3483 O3485 O3486

O3483 EYESHADE, celluloid, with elastic headband, non-inflammable, perforated, flesh-coloured, green inside, shaped, two patterns: right and left .. .. each

*O3484 Ditto .. for either eye.. .. .. each

O3485 EYE SHADE, with elastic headband, double, black silk covered, green inside, flat, each

O3486 GLUCK'S EYE SHADE, polished aluminium, perforated, shaped, two patterns: right and left, three sizes: small, medium and large .. .. .. each



O3487



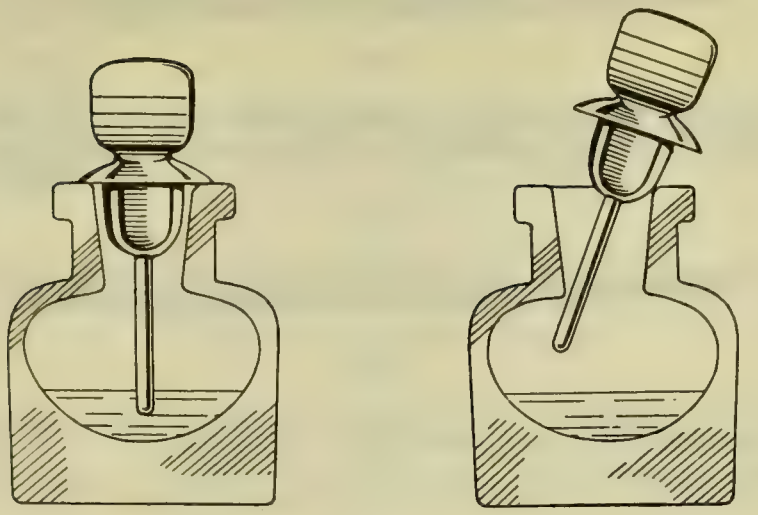
O3488

O3487 MANCHESTER'S DOUCHE TRAY, chromium plated .. .. each

O3488 CHALK'S DROP BOTTLE, with pipette and rubber cap, ½ oz. capacity, each

O3489 Ditto .. 1 oz. .. .. each

**Not illustrated*



O3490

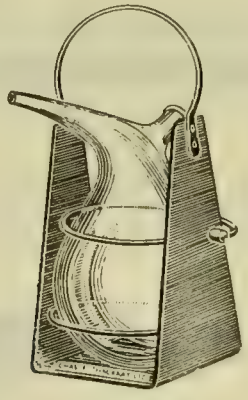
Cat. No.

O3490 FOSTER'S DROP BOTTLE, for oily Eserine, glass, with stainless steel dropper, each

This dropper is so designed that if put in obliquely, it falls into place and the overhanging rim dispenses with the need for a dust cover. With the solution at the proper level there will be enough oily Eserine on the surface of the dropper, when withdrawn, to form one or two drops.



O3491



O3493

O3491 Undine, glass,, 2 oz. capacity .. .. each

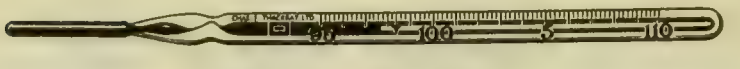
O3492 Ditto .. 4 oz. .. .. each

O3493 UNDINE, glass, 2 oz., complete in chromium plated frame for sterilizing, each

O3494 Ditto .. 4 oz. .. .. each

O3495 Frame only, chromium plated, *one* size to take 2 oz. or 4 oz. undines .. each

CLINICAL DIAGNOSIS INSTRUMENTS



C3496

Cat. No.

C3496 CLINICAL THERMOMETER, "Reality" Brand, magnifying lens front, †Fahrenheit scale, ½ minute, without case, *Certified* .. .. .. each

C3497 Ditto .. *N.P.L. Tested* .. .. each



C3498

C3498 CLINICAL THERMOMETER, STUBBY BULB, "Reality" Brand, magnifying lens front, †Fahrenheit scale, ½ minute, without case, *Certified* .. each

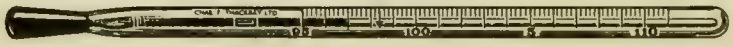
C3499 Ditto .. *N.P.L. Tested* .. .. each



C3500

C3500 CLINICAL THERMOMETER, SUB-NORMAL, "Reality" Brand, magnifying lens front, †graduated 85°F. to 105°F., ½ minute, without case, *Certified* .. each

C3501 Ditto .. *N.P.L. Tested* .. .. each



C3502

C3502 CLINICAL THERMOMETER, RECTAL, with extra strong pear-shaped blue bulb, magnifying lens front, †Fahrenheit scale, 1 minute, without case, *Certified*, each



C3503

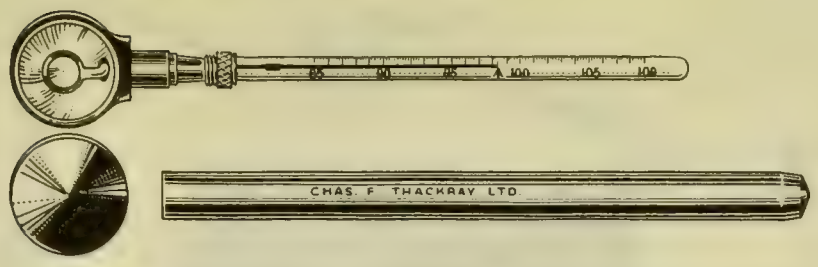
C3503 THERMOMETER CASE, spirit proof, washerless, cone-bearing cap, fitted with spring to hold thermometer firmly, and clip for pocket, nickel plated .. each

*C3504 SIMPLE THERMOMETER CASES, nickel plated .. .. each

*C3505 Ditto .. black plastic .. .. each

†*Centigrade scale can be supplied on request.*

**Not illustrated*



C3506

Cat. No.

C3506 SKIN SURFACE THERMOMETER, graduated 85°F. to 110°F., complete in black bakelite case with pull-off caps to thermometer and bulb .. each

Centigrade scale can be supplied on request.



C3507

C3507 SKIN THERMOMETER, magnifying lens front, graduated 55°F to 110°F., in bakelite case .. .. each

Centigrade scale can be supplied on request.



C3508

C3508 PULSE GLASS, "perspex" encased, unbreakable, ½ minute .. each

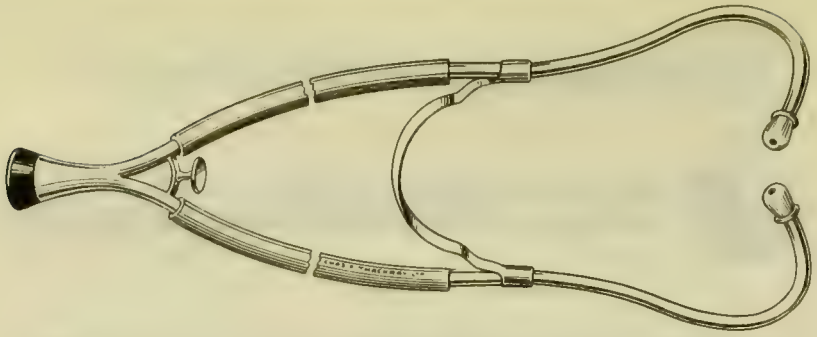


C3511

C3509 PULSE GLASS, nickel plated case, ¼ minute .. .. .. each

C3510 Ditto .. ½ minute .. .. each

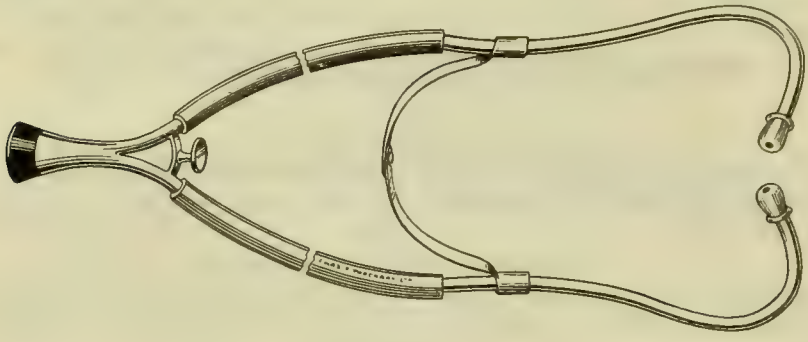
C3511 Ditto .. 1 minute .. .. each



C3512

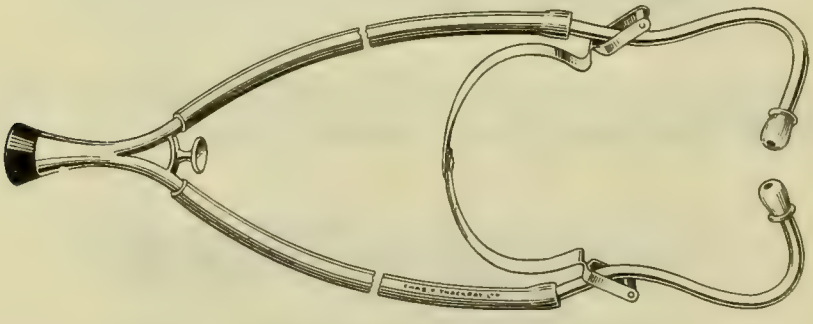
Cat. No.

C3512 STETHOSCOPE, consisting of: Headframe with *non-folding* spring (fig. C3542), fitted with white plastic Eartips (fig. C3537), Skinner's Chestpiece (fig. C3517); metal parts chromium plated; complete with rubber tubing (fig. C3535) .. each



C3513

C3513 STETHOSCOPE, consisting of: Headframe with *folding* spring (fig. C3543), fitted with white plastic Eartips (fig. C3537); Skinner's Chestpiece (fig. C3517); metal parts chromium plated; complete with rubber tubing (fig. C3535) .. each



C3514

C3514 STETHOSCOPE, consisting of: *double-folding* Headframe (fig. C3544), fitted with white plastic Eartips (fig. C3537); Skinner's Chestpiece (fig. C3517); metal parts chromium plated; complete with rubber tubing (fig. C3535) .. .. each

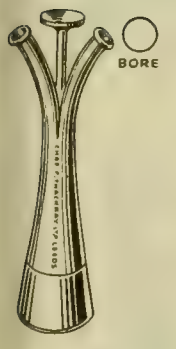
NOTE.—The range of stethoscope parts which are listed on the following pages allows a stethoscope to be selected of individual choice. We should be pleased to assemble a complete instrument according to the parts chosen.



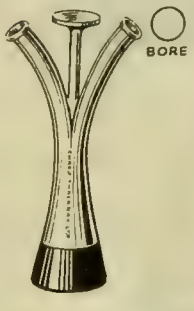
C3515

Cat. No.

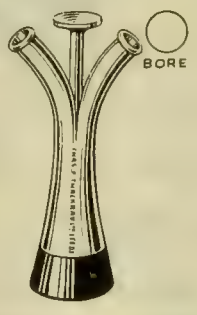
C3515 TRIPLE-CHANGE STETHOSCOPE, consisting of: *non-folding* Headframe fitted with black plastic Eartips; three Chestpieces—Bell type, Bowles' type and Brachial Diaphragm with straps; Luer-Lock mounts for quick interchange of chestpieces; all metal parts chromium plated; complete with Y-union and black rubber tubing in cloth pouch .. .. each



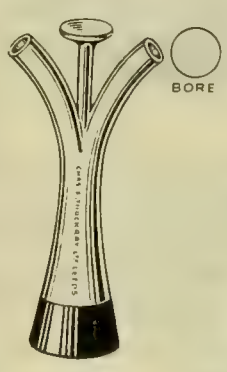
C3516



C3517



C3518



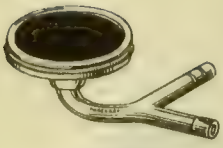
C3519

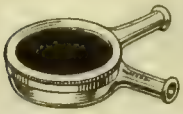


C3520

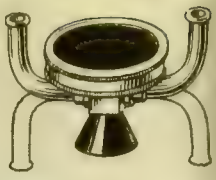
C3516 ADMIRALTY PATTERN CHESTPIECE, chromium plated, with aluminium end .. .. each
C3517 SKINNER'S CHESTPIECE, chromium plated, with black plastic end, each
C3518 WIDE BORE CHESTPIECE, chromium plated, with black plastic end, each
C3519 Ditto .. Extra Wide Bore .. .. each
C3520 VULCANITE CHESTPIECE, with soft rubber end .. .. each
C3521 Spare Black Plastic Ends for Chestpieces, *please state catalogue number of Chestpiece*, each
C3522 Ditto .. aluminium, for Admiralty Pattern Chestpiece .. .. each

CLINICAL DIAGNOSIS INSTRUMENTS


C3523

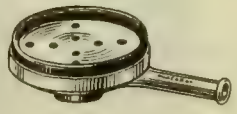

C3525

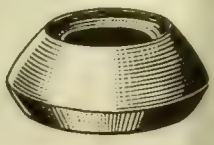

C3527


C3529


C3524

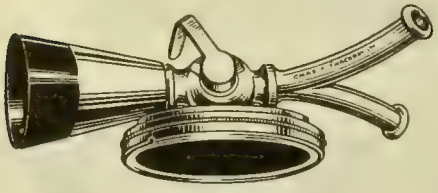

C3526

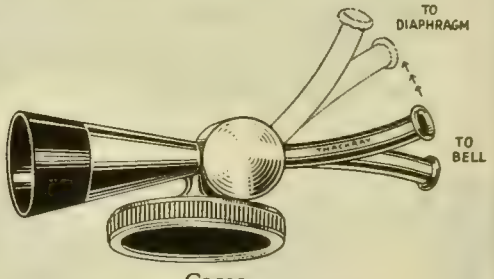

C3528


C3530

Cat. No.

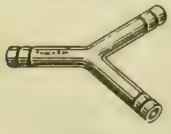
C3523	BOWLES' CHESTPIECE, double, chromium plated, with diaphragm	each
C3524	Ditto .. single	each
C3525	MINCHIN'S CHESTPIECE, double, chromium plated, with diaphragm	each
C3526	Ditto .. single	each
C3527	CHESTPIECE, double, chromium plated, rubber rim, with perforated metal diaphragm and thumb-rest	each
C3528	Ditto .. single	each
C3529	REVERSIBLE CHESTPIECE, chromium plated, diaphragm and localiser bell end	each
C3530	RUBBER CHESTPIECE END, to fit end of bell type chestpieces ..	each


C3531



C3532

C3531	SPRAGUE-BOWLES' CHESTPIECE, lever control, chromium plated, with diaphragm and bell end	each
C3532	SPRAGUE-BOWLES' CHESTPIECE (new pattern), "break-back" control, with diaphragm and bell end	each
C3533	Bell Chestpiece Ends, *please state catalogue number*	each
C3534	METAL CAPS for Diaphragm Chestpieces, chromium plated, *please state catalogue number of Chestpiece*	each
C3535	Spare Diaphragms, *please state catalogue number of Chestpiece*	each


C3536


C3537

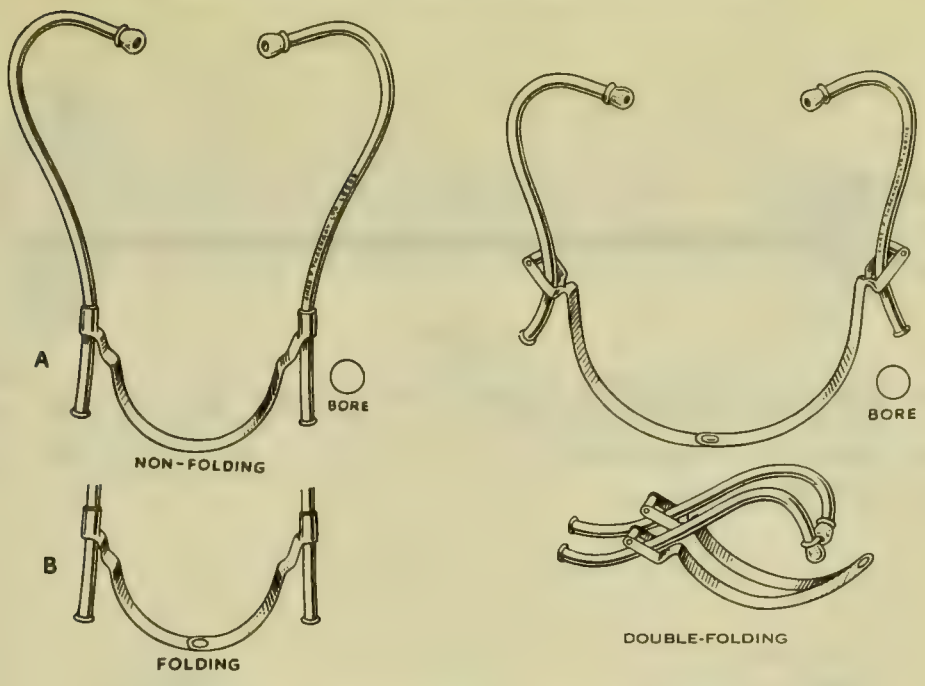

C3538


C3539


C3540


C3541

C3536	Y-UNION, chromium plated	each
C3537	RUBBER TUBING, red or black	yard
C3538	Ditto .. Wide Bore (for chestpieces C3518–9 and headframe C3545)..	yard
C3539	EARTIPS, plastic, white or black (*wide bore on request*)	each
C3540	Ditto .. aluminium	each
C3541	Ditto .. red rubber	each



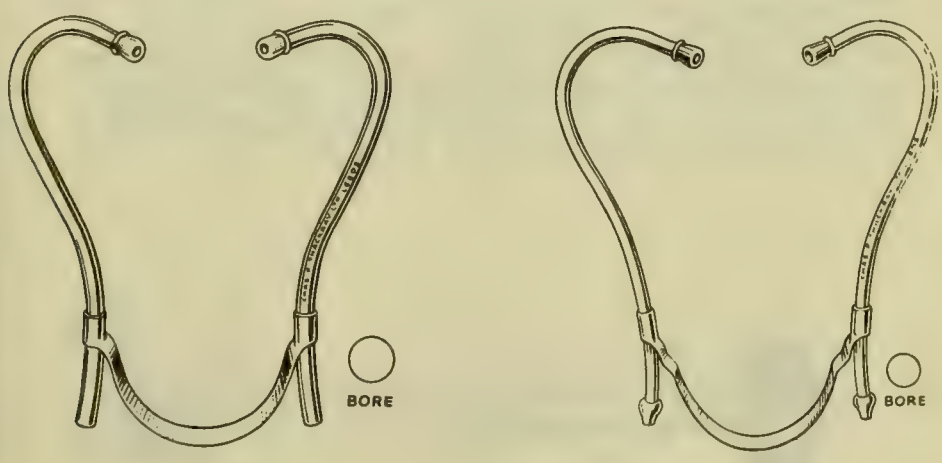
C3542–3 C3544

Cat. No.

C3542 HEADFRAME, non-folding spring (A), chromium plated, with white plastic Eartips .. .. each

C3543 Ditto .. folding spring (B) .. .. each

C3544 DOUBLE-FOLDING HEADFRAME, chromium plated, with white plastic Eartips .. .. each



C3545 C3546

C3545 WIDE BORE HEADFRAME, non-folding spring, chromium plated, with white plastic Eartips .. .. each

C3545A EXTRA WIDE BORE HEADFRAME, non-folding spring, chromium plated, with white plastic Eartips.. .. .. each

C3546 ADMIRALTY PATTERN HEADFRAME, non-folding spring, chromium plated, with aluminium Eartips .. .. each



C3549

Cat. No.

C3549 BABINSKI'S PERCUSSOR, chromium plated heavy head with rubber ring and nylon handle pointed at end .. .. each

C3550 Spare Rubber Rings for above .. .. each

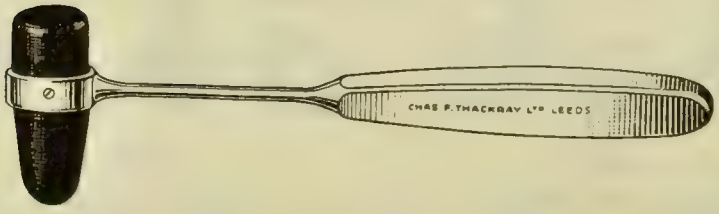
C3550A Spare Nylon Handles .. .. each



C3551

C3551 CURRIE'S TENDON HAMMER, stainless steel .. .. .. each

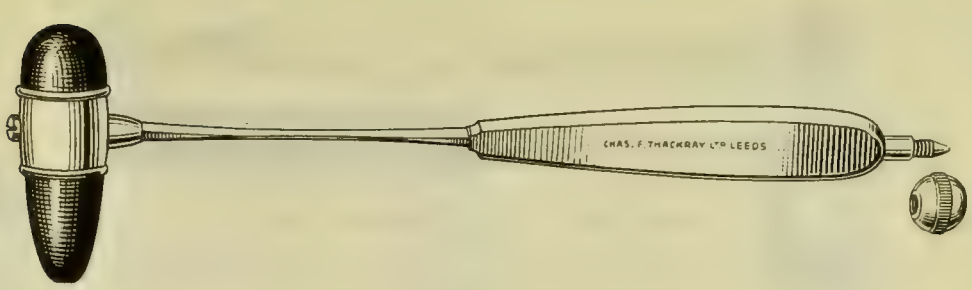
"The accompanying illustration shows a tendon hammer which I designed some time ago and which has now been produced by Chas. F. Thackray Ltd., of Leeds. The hammer is entirely of stainless steel. I have found it more useful than any other available type because of its greater weight and better balance. The pointed handle is useful for eliciting the cremasteric, abdominal, and plantar reflexes. The hammer has the obvious advantage of being unbreakable and having no perishable parts". Vide Mr. J. P. Currie, "British Medical Journal", Dec. 2nd, 1944.



C3552

C3552 DEJERINE'S PERCUSSOR, solid rubber head and chromium plated handle, each

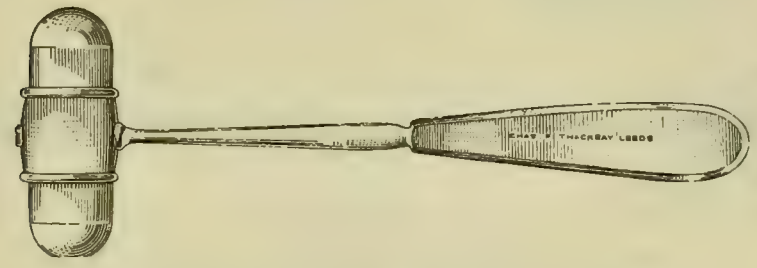
C3553 Spare Rubber Heads for above .. .. each



C3554

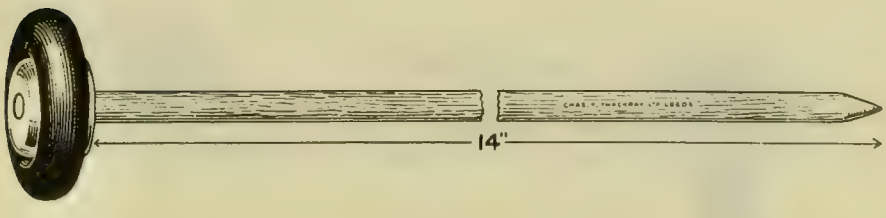
Cat. No.

C3554 HURST'S PERCUSSOR, solid rubber head, chromium plated handle with protected point .. .. each
C3555 Spare Rubber Heads for above .. .. each



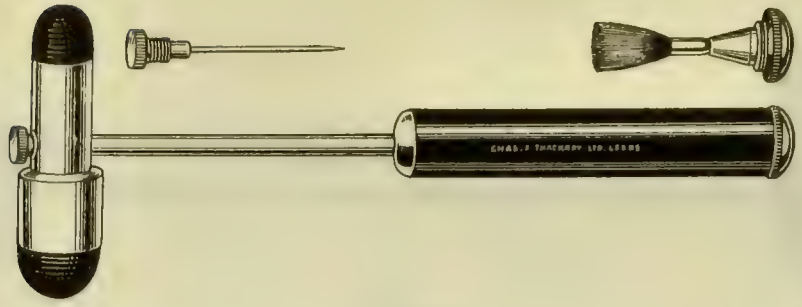
C3556

C3556 MOLL'S PERCUSSOR, solid rubber head, chromium plated handle .. each
C3557 Spare Rubber Heads for above .. .. each



C3558

C3558 NATIONAL HOSPITAL PATTERN PERCUSSOR, chromium plated head with thick rubber ring and 14 in. cane handle .. .. .. each
C3559 Spare Rubber Rings for above .. .. each
C3559A Spare Cane Handles .. .. each



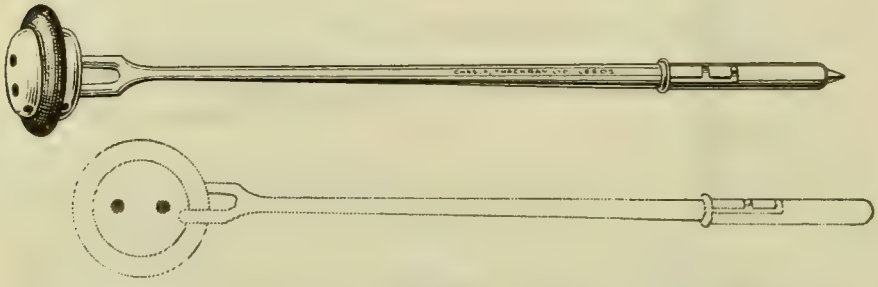
C3560

Cat. No.

C3560 NEUROLOGICAL PERCUSSOR, chromium plated shaft and rubber-fitted head, black bakelite handle, with screw-in needle and camel hair brush .. each

The head incorporates two sizes of hammer: small end for the knee and large end for chest percussion. The sensibility needle and camel hair brush conveniently screw into the head and handle respectively.

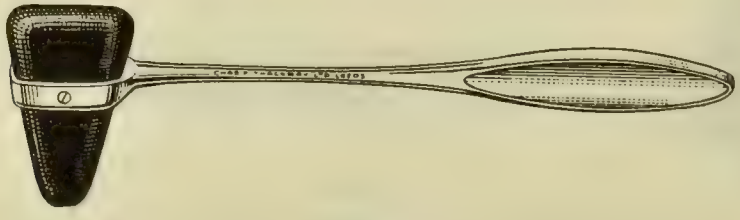
C3561 Spare Rubber Tips for above: small and large .. .. .. each



C3562

C3562 PURVES-STEWART'S PERCUSSOR, reversible head with rubber ring and metal handle with protected point, chromium plated .. .. each

C3563 Spare Rubber Rings for above .. .. each



C3564

C3564 TAYLOR'S PERCUSSOR, solid rubber head, chromium plated handle, each

C3565 Spare Rubber Heads for above .. .. each



C3565A

Cat. No.

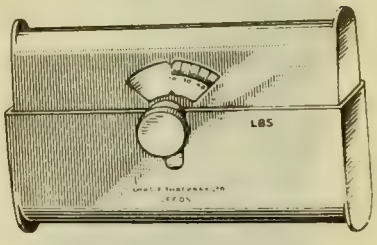
C3565A VERNON'S PERCUSSOR, chromium plated ball with rubber ring and nylon handle pointed at end .. .. each

C3565B Spare Rubber Rings for above .. .. each

C3565C Spare Nylon Handles .. .. each



C3566



C3567

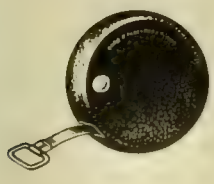
C3566 ALY'S ALGESIMETER, camel hair brush and stainless steel needle, chromium plated holder .. .. each

C3567 TOTALLY ENCLOSED DYNAMOMETER, 20 lb.–120 lb., chromium plated, each

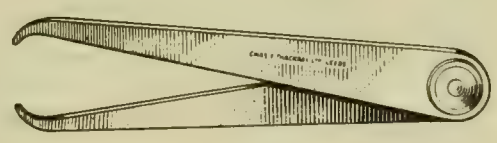


C3568

†C3568 DERMATOGRAPH PENCIL, two colours: red and blue .. .. each



C3570

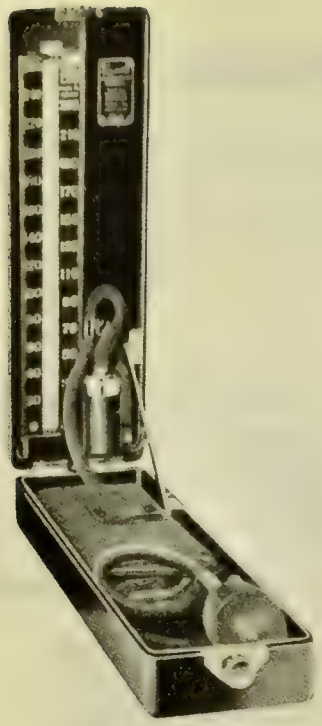


C3572

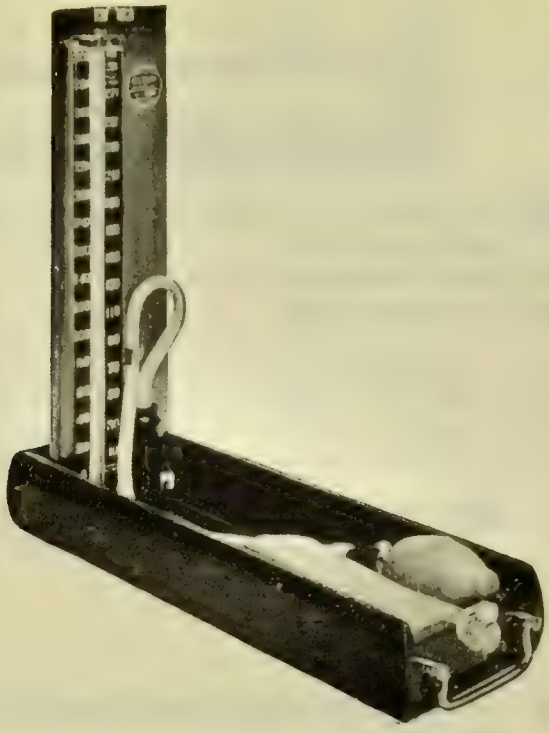
C3570 TAPE MEASURE, spring steel tape, in plastic case, reciprocal spring, graduated English and Metric, sizes: 3 ft. and 6 ft. .. .. each

C3572 SIMPLE PATTERN CALIPERS, chromium plated .. .. each

†*Other colours available.*



C3573



C3574

Cat. No.

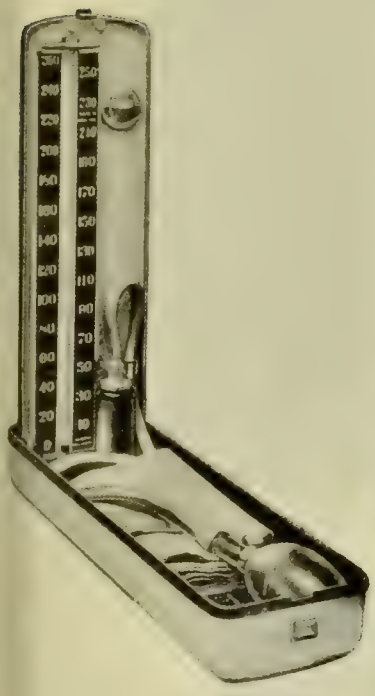
C3573	"ACCOSON" SPHYGMOMANOMETER, mercurial, *Dominion Model*, 260 mm., complete in moulded plastic case, size when closed: 13⅛ in. by 3¾ in. by 2⅛ in.,	each
C3574	"ACCOSON" SPHYGMOMANOMETER, mercurial, *Desk Model*, 300 mm., complete in walnut case, size when closed: 15 in. by 5 in. by 2½ in. ..	each
*C3575	Ditto .. *Miniature* model, 260 mm. size when closed: 12¾ in. by 5 in. by 2⅜ in.,	each

Spare Parts "Accoson":

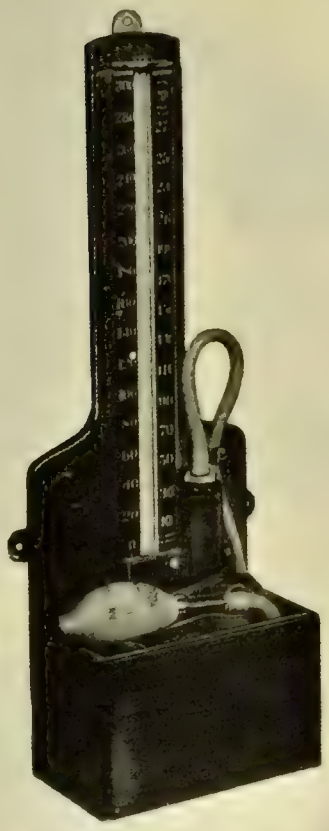
C3576	Rubber Bag, adults' size: 9 in. by 5 in.	each
C3577	Ditto .. children's size: 7½ in. by 4 in.	each
C3578	Ditto .. babies' size: 4 in. by 2 in.	each
C3578A	Ditto .. Thigh Band, size 20 in. by 7 in.	each
C3579	Silk Armlet, adults' size	each
C3580	Ditto .. children's size	each
C3581	Ditto .. babies' size	each
C3581A	Ditto .. Thigh Band size	each
C3582	Rubber Inflation Ball	each
C3583	Control Valve for above	each
C3584	Metal Connections, plug-in fitting	per pr.
C3585	Rubber Tubing	per ft.
†C3585A	Manometer Tube, glass, 260 m.m.	each
†C3585B	Ditto .. 300 mm.	each

†*NOTE.—When ordering spare manometer tubes, please state catalogue number of instrument and serial number.*

**Not illustrated*



C3586



C3588



C3588A

Cat. No.

C3586 "ACCOSON" SPHYGMOMANOMETER, mercurial, *Metpak Model*, 260 mm., complete in cast aluminium case, crinkle grey, size when closed: 12⅛ in. by 3⅜ in. by 1⅞ in. .. .. each

*C3587 Ditto .. *Dekamet Model*, 300 mm. size when closed: 14 in. by 4 1/16 in. by 2 1/16 in. each

C3588 "ACCOSON" SPHYGMOMANOMETER, mercurial, *Wall Model*, 300 mm., with walnut base and container, size: 18 in. by 6⅜ in. by 3½ in. complete each

C3588A Ditto .. *Dekawal Model*, 300 mm. for the Desk or Wall, size 15¾ in. by 5½ in. by 5½ in., complete .. .. each

NOTE.—Spare Parts for "Accoson" Sphygmomanometers: page C674.

When ordering spare manometer tubes, please state catalogue number of instrument and serial number.

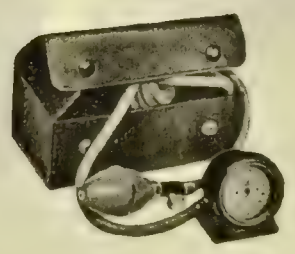
**Not illustrated*



C3590



C3591



C3592

Cat. No.

C3590 "ACCOSON" SPHYGMOMANOMETER, mercurial, *Floor Stand Model*, 300 mm., metal stand and base, aluminium finish, height of apparatus: 39 in., complete .. .. each
The upright tube is shaped at back to form a handle for lifting. The front is hinged to form a dustproof container for the inflation system.

C3591 "ACCOSON" SPHYGMOMANOMETER, mercurial, *Anæsthetic Table Model*, 260 mm., with special attachment to fix in any direction to a table rail, complete each

NOTE.—When ordering spare manometer tubes, please state catalogue number of instrument and serial number.

C3592 "ACCOSON" SPHYGMOMANOMETER, aneroid, 300 mm. gauge on plastic body, complete in pouch case with zip fastener, size when closed: 8½ in. by 4¼ in. by 2 in. .. .. each

NOTE.—Spare Parts for "Accoson" Sphygmomanometers: page C674.



C3593

Cat. No.

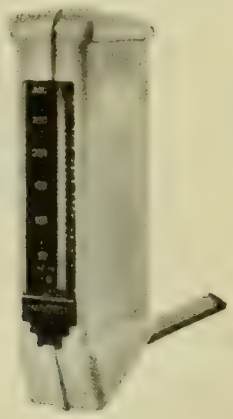
C3593 "ACCOSON" ADJUSTABLE "HOOK TYPE" ARMBAND (without inflation ball and valve), latest pattern. Adult's size .. .. each

C3593A Ditto .. Children's size .. .. each

C3593B Ditto .. Heavy Duty Hospital Model. Adult's size .. .. each

This new armlet provides a rigid exterior but is as compact for packing in the case as a soft silk armlet. A firm even-covered surface is maintained and "tucking-in" obviated.

NOTE.—Spare parts for "Accoson" Sphygmomanometers: page C674.



C3594

C3594 "ACCOSON-MANOTEST" SPHYGMOMANOMETER, mercurial, *Portable Model*, 300 mm., cream coloured plastic case, in plastic pouch of leatherette appearance .. .. complete

*C3595 MOUNTING PLATE, metal, 6 in. by 6 in. for mounting the instrument in the consulting room or on a desk. A centre fixing pin allows the instrument to be turned in any direction .. .. each

This sphygmomanometer is only 7 in. high and is inclined backwards for easy reading. Two supporting feet are embodied in the base of the instrument which fold out to facilitate standing. The instrument is compensated for positional errors and accurate readings can still be taken when the base is not on a level surface.

We should be pleased to send, on request, a fully illustrated leaflet and details of repair and exchange service.

Models for wall mounting and for fitting to anæsthetic table are available on request.

**Not illustrated*



C3602A



C3603



C3604

Cat. No.

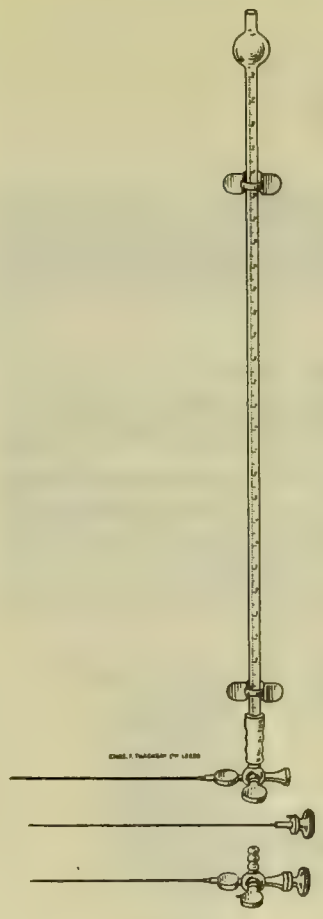
C3602A "ACCOSON" ANEROID WALL MODEL SPHYGMOMANOMETER, complete with arm-band inflating bellows and 6 ft. tubing with two pairs connecting adaptors .. .. each

C3603 "REALITY" SPHYGMOMANOMETER, aneroid, 300 mm. gauge with chromium plated body, complete in leather case, size when closed: 7¼ in. by 4¼ in. by 3¼ in., each

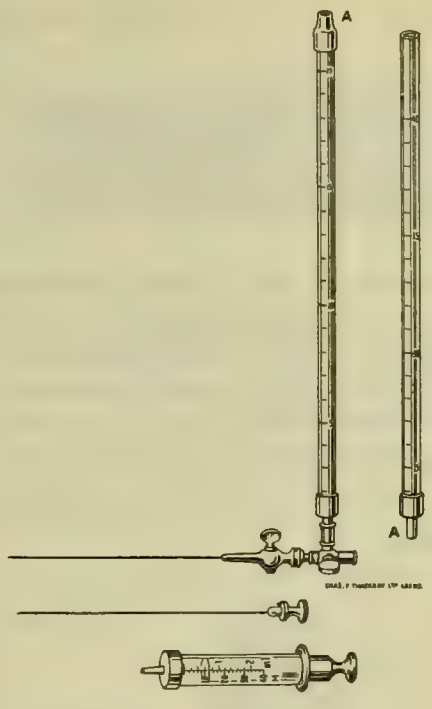
Spare parts available on request.

C3604 "TYCOS" SPHYGMOMANOMETER, aneroid, 300 mm. gauge with metal body, black enamelled with chromium plated rim, complete in leather case, size when closed: 7¼ in. by 4½ in. by 2½ in. .. .. each

Spare parts available on request.



C3605



C3609

Cat. No.

C3605 GREENFIELD'S SPINAL MANOMETER, consisting of: graduated glass tube, two slide-markers, two stainless steel needles (one of each two sizes: 18 and 20 B.W.G. by 3½ in. long) with chromium plated stopcocks, Record fitting, and small length of rubber tubing connecting tube to needle, in wooden case, complete

C3606 Spare Graduated Glass Tubes .. .. each

C3607 Spare Needles, stainless steel, two sizes: 18 and 20 B.W.G. .. .. each

C3607A Ditto .. Luer fitting .. .. each

C3608 STERILIZING TUBE, for Greenfield's Manometer, consisting of: chromium plated tube fitted with rack (to take manometer, needles and 2 ml. syringe), each
The screw-fitting cap has a perforated top which can be occluded by a shutter arrangement and the apparatus is kept ready for immediate use. For sterilization by autoclave ONLY.

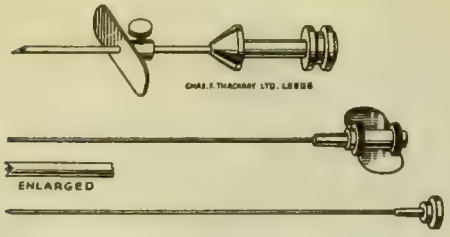
C3609 ADSON'S SPINAL MANOMETER, consisting of: two graduated glass tubes with chromium plated stopcock; 2 ml. Record fitting syringe and one stainless steel needle, 19 B.W.G. by 3¼ in. long, Record fitting, in leatherette covered case each
The glass tubes are fitted with mounts to joint one to the other.

C3610 Spare Graduated Glass Tubes, in two parts .. .. complete

C3611 Spare Syringe, 2 ml., glass, with metal nozzle, Record fitting .. .. each

C3612 Spare Needles, stainless steel, 19 B.W.G. by 3¼ in. long .. .. each

**Not illustrated*



C3613

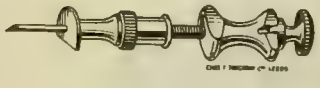
Cat. No.

C3613 BERNSTOCK AND STERNDALE'S STERNAL NEEDLE, for combined biopsy and aspiration, consisting of: an outer guiding and aspirating needle (9 cm. long) with stilette and adjustable guard, inner trephine (11·15 cm. long) and stilette, stainless steel, with †Luer fitting mount .. .. each

The site is that as for routine sternal marrow aspiration. The outer needle with stilette is introduced through the skin to the periosteum, the stilette is removed and the needle is adjusted to lie at 75° with the sternum. The trephine is now inserted within the outer needle to the periosteum and with a circular boring motion, under moderate pressure, it is sunk up to the metal shoulder; a final twist will detach the biopsy. The trephine is removed and with the aid of the stilette the specimen is expressed into the fixative.

Vide "Journal of Clinical Pathology", August 1951, Vol. 4, No. 3, page 378.

†Record fitting on request.



C3614

C3614 "KLIMA" PATTERN STERNAL NEEDLE, stainless steel shaft: 15 B.W.G. with screw-adjusting depth guard, stilette and †Record fitting mount, in glass test tube .. .. each

The needle shaft is threaded at its base so that it can be screwed into the guard to the required depth to enable the sternum to be entered safely.

The Test Tube, constricted round its circumference near to the base to provide a "rest" to protect the needle point. Supplied with a cotton-wool plug so that the needle can be autoclaved and stored ready for immediate use.

†Luer fitting on request.



C3615

C3615 SALAH'S STERNAL NEEDLE, for biopsy or aspiration, stainless steel shaft: 15 B.W.G. by 1⅝ in. long, with depth guard, stilette and †Record fitting mount, each

†Luer fitting on request.



C3619

Cat. No.

C3619 THE LISTER-MORTON TYPE OPHTHALMOSCOPE, complete with battery and lamp; in leatherette covered, plush lined case .. .. complete

C3620 Spare Batteries for above (two E.R. U2 or equivalent type) .. .. per pr.

C3621 Spare Lamps for above .. .. each

Fully described in an illustrated leaflet which we shall be pleased to send on request.



C3622



C3625

C3622 "MAY" OPHTHALMOSCOPE HEAD, to fit small or large battery handle (figs. C3659–61) .. .. each

C3623 Ditto .. with *Small* battery handle (fig. C3659), battery and spare lamp; in leatherette covered, plush lined case .. .. .. complete

C3624 Ditto .. with *Large* battery handle (fig. C3661) .. .. complete

C3625 UNIVERSAL OPHTHALMOSCOPE-RETINOSCOPE HEAD, to fit small or large battery handle (figs. C3659–61) .. .. each

C3626 Ditto .. with *Small* battery handle (fig. C3659), battery and spare lamp; in leatherette covered, plush lined case .. .. .. complete

C3627 Ditto .. with *Large* battery handle (fig. C3661) .. .. complete

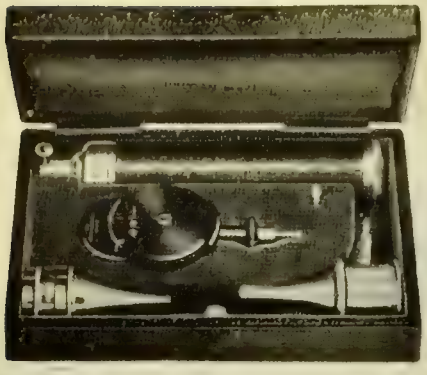
C3628 Spare Batteries for *Small* handles (two E.R. U10 or equivalent type) .. per pr.

C3629 Ditto .. for *Large* handles (two E.R. U2 or equivalent type) .. per pr.

C3630 Spare Lamps for fig. C3622 .. .. each

C3631 Ditto .. for fig. C3625 .. .. each

CLINICAL DIAGNOSIS INSTRUMENTS





Cat. No. C3632 C3634

C3632 "MAY" OPHTHALMOSCOPE and AURISCOPE, with *Small* battery handle, three specula, battery and spare lamp; in leatherette covered, plush lined case, complete

C3633 Ditto .. with *Large* battery handle .. .. .. complete

C3634 AURISCOPE, with *Small* battery handle, three specula, battery and spare lamp; in leatherette covered, plush lined case .. .. .. complete

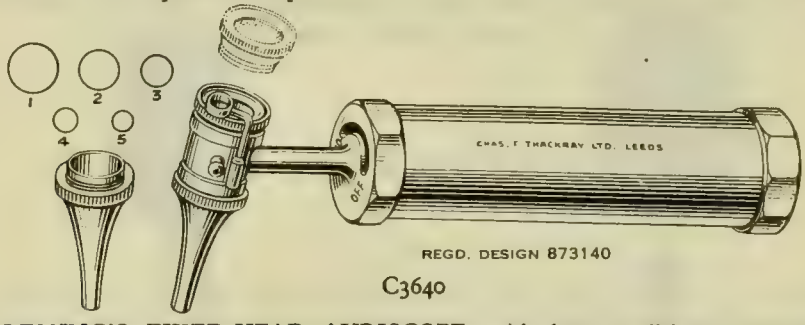
C3635 Ditto .. with *Large* battery handle .. .. .. complete

C3636 Spare Batteries for *Small* handles (two E.R. U10 or equivalent type) .. per pr.

C3637 Ditto .. for *Large* handles (two E.R. U2 or equivalent type) .. per pr.

C3638 Spare Lamps for Auriscopes .. .. each

C3639 Ditto .. for Ophthalmoscopes .. .. each



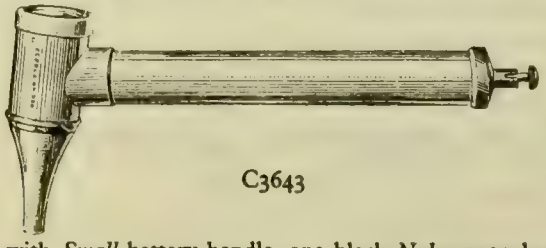
C3640

†C3640 FLEMING'S FIXED-HEAD AURISCOPE, with large, polished aluminium handle, battery, lamp, chromium plated head and range of five screw-fitting chromium plated specula, (*without case*) .. .. .. complete

C3641 Spare Batteries for above (two E.R. U2 or equivalent type) .. .. per pr.

C3642 Spare lamps for above .. .. each

This Auriscope is designed by Mr. F. Fleming, North Riding Infirmary, Middlesbrough, for use in a busy E.N.T. Out-Patients Dept. The fixed-head greatly reduces the risk of faulty light connection and the specula are attached by a quick-action screw thread. Special attention has been given to the angle.



C3643

C3643 AURISCOPE, with *Small* battery handle, one black *Nylon* speculum, battery and lamp, without case, chromium plated .. .. each

C3644 Spare Batteries for above (E.R. U12 or equivalent type) .. .. per pr.

C3645 Spare Lamps for above .. .. each

†*Can be supplied in Wooden Case if required.*

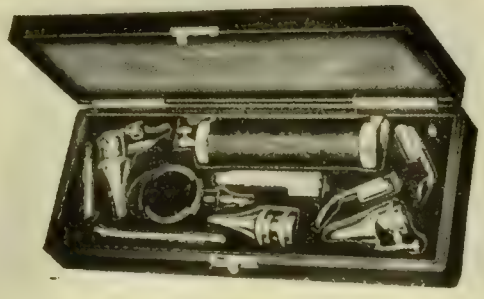


C3646

Cat. No.

C3646 UNIVERSAL DIAGNOSTIC SET, consisting of: Universal Ophthalmoscope-Retinoscope, Auriscope with three Specula, Nasascope, Throat Lamp, one of each Laryngeal and Post Nasal Mirrors, Seymour Jones' Tongue Depressor, Rectal Speculum, Sims' Vaginal Speculum with Light Attachment and Cables, *Large* battery handle, battery and spare lamp; in leatherette covered, plush lined case, complete

Spare Lamps and Batteries: see below.



C3647

C3647 DIAGNOSTIC SET, consisting of: "May" Ophthalmoscope, Auriscope with three Specula, Nasascope, Throat Lamp, one of each Laryngeal and Post Nasal Mirrors, Holder for wooden Tongue Depressor, *Large* battery handle, battery and spare lamp; in leatherette covered, plush lined case .. .. complete

C3648 Spare Lamps for Auriscopes, Throat Lamps and Sims' Speculum .. each

C3649 Ditto .. for Ophthalmoscopes in fig. C3646 .. .. .. each

C3650 Ditto .. for Ophthalmoscopes in fig. C3647 .. .. .. each

C3651 Spare Batteries for *Large* Handles (two E.R. U2 or equivalent type) .. per pr.



C3652

Cat. No.

C3652 E.N.T. DIAGNOSTIC SET, consisting of: "May" Ophthalmoscope, Auriscope with three Specula, Nasascope, Tongue Depressor, Throat Lamp, and one each Laryngeal and Post Nasal Mirrors, *Small* battery handle, battery and spare lamp; in leatherette covered, plush lined case .. .. .. complete

C3653 Ditto .. with *Large* battery handle .. .. .. complete

Spare Lamps and Batteries: see below.



C3654

C3654 DIAGNOSTIC SET, consisting of: "May" Ophthalmoscope, Auriscope with three Specula, Nasascope, Tongue Depressor, Throat Lamp, one of each Laryngeal and Post Nasal Mirrors, Headlamp, "Rye" Handle and Cables, *Large* battery handle, battery and spare lamp; in leatherette covered, plush lined case complete

C3655 Spare Batteries for *Small* handles (two E.R. U10 or equivalent type) .. per pr.

C3656 Ditto .. for *Large* handles (two E.R. U2 or equivalent type) .. per pr.

C3657 Spare Lamps for Auriscopes and Throat Lamps .. .. .. each

C3658 Ditto .. for Ophthalmoscopes .. .. each

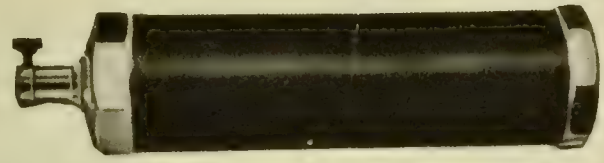
C3658A Ditto .. for Head Lamps .. .. each



C3659

Cat. No.

C3659 SMALL BATTERY HANDLE, with rheostat on handle .. .. each
C3660 Batteries for above (two E.R. U10 or equivalent type).. .. .. per pr.



C3661

C3661 LARGE BATTERY HANDLE, with rheostat on handle .. .. each
C3662 Batteries for above (two E.R. U2 or equivalent type) .. .. .. per pr.



C3663

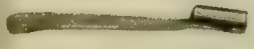


C3664

C3663 THE "RYE" HANDLE, for Ophthalmoscopes, Auriscopes and throat lamps; with cables for battery box or transformer, black bakelite handle with metal mount fitted with rheostat .. .. each

C3664 NASASCOPE, with expanding screw and a collar to fit auriscope head, chromium plated .. .. each

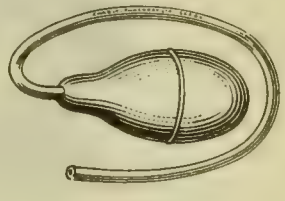
C3664A SPECULA ENDS, AURISCOPE, metal, 3 sizes, for Diagnostic Sets C3632–5, C3646–7, C3652–4 .. .. each



C3665



C3666



C3667

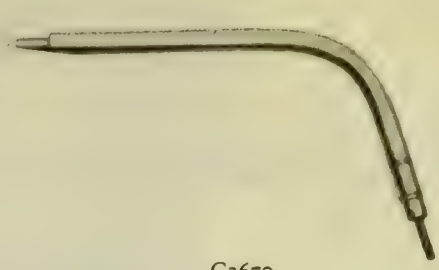
C3665 TONGUE DEPRESSOR to fit throat lamp (fig. C3670) .. .. each

C3666 SEYMOUR JONES' TONGUE DEPRESSOR, to fit throat lamp (fig. C3670), chromium plated .. .. each

C3667 INFLATION BELLOWS for Auriscopes, rubber .. .. .. each



C3668



C3670

Cat. No.

C3668 POST NASAL MIRROR, boilable, 19 mm. diameter, to fit Throat Lamp, each

C3669 LARYNGEAL MIRROR, boilable, 25 mm. diameter, to fit Throat Lamp (C3670) .. .. each

C3670 THROAT LAMP, chromium plated, to fit Battery Handles (figs. C3559–61) each

C3671 Spare Lamps .. .. each



C3672

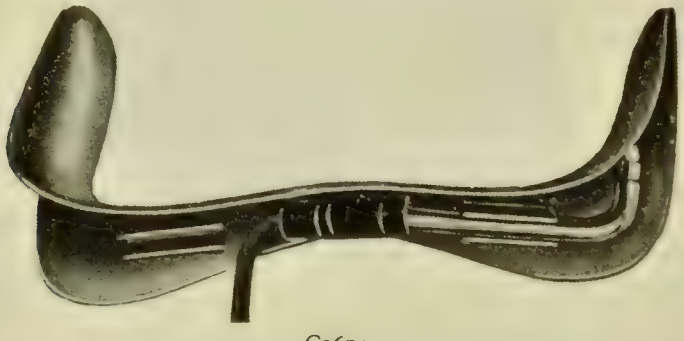


C3673

C3672 CORNEAL MAGNIFIER, chromium plated, to fit Battery Handles (figs. C3559–61) each

C3673 LOCKHART-MUMMERY'S RECTAL SPECULUM, complete with *electric attachment, lamp, cables and plug to fit Battery Handles (figs. C3559–61), each

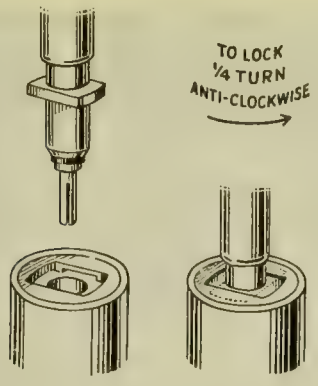
**Not illustrated*



C3674

C3674 SIM'S VAGINAL SPECULUM, chromium plated, with electric attachment, lamp and cables with plug to fit Battery Handles (figs. C3559–61) .. .. each

C3674A Spare Lamps .. .. each



C3675

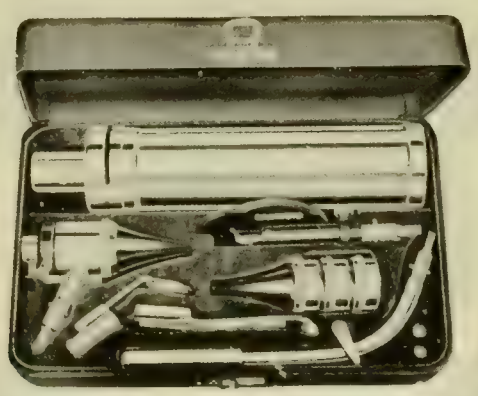
Cat. No.

C3675 The "RIMLOCK" fitting ensures a flickerless light and a speedy interchange of attachments. A flanged bayonet catch on the attachment coincides with a similar slot in the battery handle. By pressing the bayonet catch into the slot in the handle and giving a quarter turn *anti-clockwise*, the union is firmly maintained by a spring-loaded device. To release, the bayonet catch is given a quarter turn *clockwise*.



C3676

C3676 SPECULA ENDS, Auriscope, *Nylon*, boilable, for "Rimlock" Diagnostic Sets, six sizes: 1 to 6 .. .. each

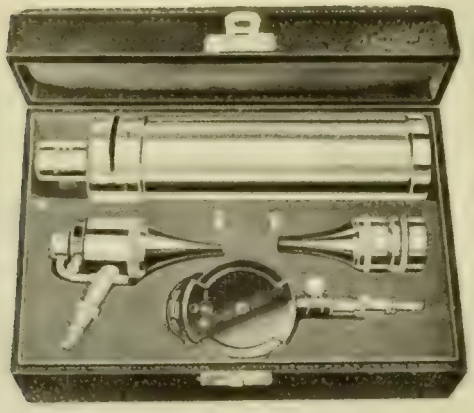


C3677 "RIMLOCK" DIAGNOSTIC SET, consisting of: "May" Ophthalmoscope, Auriscope, with three *Nylon* Specula (†Nos. 1, 2 and 3), *Nylon* Nasascope, Tongue Depressor, Throat lamp, Laryngeal Mirror, Transillumination Sheath, *Large* Battery Handle, battery and two spare lamps; in leatherette-covered, plush-lined case, complete

C3679 Ditto .. with *Small* Battery Handle, in leatherette case .. .. complete
C3681 Spare Lamps for "May" Ophthalmoscopes .. .. each
C3682 Spare Lamps for "Rimlock" Auriscopes and Throat Lamps .. .. each
C3683 Spare Batteries for *Small* Battery Handles (two E.R. U10 or equivalent type) per pr.
C3684 Ditto .. for *Large* Battery Handles (two E.R. U2 or equivalent type) per pr.

† *or other Nos. to choice* (*fig.* C3676).

CLINICAL DIAGNOSIS INSTRUMENTS



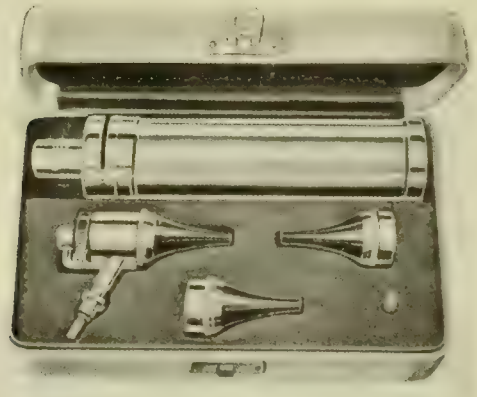
C3685

Cat. No.

C3685 "RIMLOCK" DIAGNOSTIC SET, consisting of: "May" Ophthalmoscope, Auriscope with three *Nylon* Specula (†Nos. 1, 2 and 3), *Large* Battery Handle, battery and two spare lamps; in leatherette-covered, plush-lined case .. .. complete

C3687 Ditto .. with *Small* Battery Handle, in leatherette covered case .. complete

† *or other Nos. to choice* (*fig.* C3676).



C3689 "RIMLOCK" AURISCOPE, consisting of: Auriscope with three *Nylon* Specula (†Nos. 1, 2 and 3), *Large* Battery Handle, battery and spare lamp; in leatherette-covered, plush-lined case .. .. complete

C3691 Ditto .. with *Small* Battery Handle, in leatherette-covered case .. complete

C3693 Spare Lamps for "May" Ophthalmoscopes .. .. .. each

C3694 Spare Lamps for "Rimlock" Auriscopes and Throat Lamps .. .. each

C3695 Spare Batteries for *Small* Battery Handles (two E.R. U10 or equivalent type) per pr.

C3696 Ditto .. for *Large* Battery Handles (two E.R. U2 or equivalent type) per pr.

† *or other Nos. to choice* (*fig.* C3676).

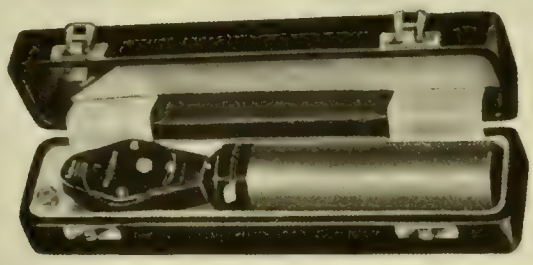


C3697A

Cat. No.

C3697A THE KEELER "NEW ERA" "SPECIALIST" WIDE-ANGLE OPHTHALMOSCOPE (Head and battery handle joined) complete with spare bulb in leatherette-covered case .. .. complete

*C3697B Ditto .. (Head and battery handle separate) .. .. .. complete



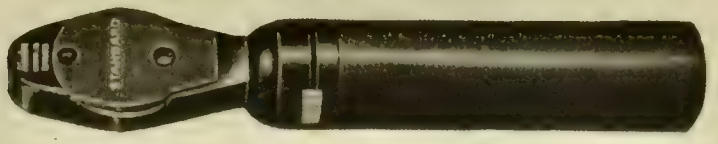
C3698A

C3698A THE KEELER "NEW ERA" "PRACTITIONER" OPHTHALMOSCOPE, complete with spare bulb in leatherette-covered case .. .. .. complete



C3699A

C3699A THE KEELER "NEW ERA" "POPULAR" OPHTHALMOSCOPE, complete with spare bulb in leatherette-covered case .. .. complete



C3700A

C3700A THE KEELER "NEW ERA" "STANDARD" OPHTHALMOSCOPE, complete with spare bulb in leatherette-covered case .. .. complete

C3701 Spare Lamps for above Keeler Ophthalmoscopes .. .. .. each

C3704 Spare Batteries for Keeler Handles (two E.R. U2 or equivalent type) .. per pr.

The full range of Keeler Products are outlined in an illustrated leaflet which we shall be pleased to send on request.

**Not illustrated*



C3705B

Cat. No.

C3705A THE KEELER "NEW ERA" "POPULAR" DIAGNOSTIC SET No. 1, consisting of: Ophthalmoscope, Auriscope with five *Nylon* Specula, Large Battery Handle, battery and two spare lamps, in leatherette-covered, plush-lined case complete

C3705B Ditto .. in moulded case .. .. complete



C3706A

C3706A THE KEELER "NEW ERA" "STANDARD" DIAGNOSTIC SET No. 1, consisting of: Ophthalmoscope, Auriscope with three *Nylon* Specula, Large Battery Handle, battery and two spare lamps, in leatherette-covered case .. complete

*C3706B Ditto .. Standard Diagnostic Set No. 2, in moulded case .. .. complete

C3707 Spare Lamps for above Keeler Auriscopes .. .. each

C3708 Ditto .. for above Keeler Ophthalmoscopes .. .. .. each

C3710 Spare Batteries for Keeler Handles (two E.R. U2 or equivalent type) .. per pr.

The full range of Keeler Products are outlined in an illustrated leaflet which we shall be pleased to send on request.

**Not illustrated*



"NEW ERA" OPERATING AURISCOPE

FEATURES

Independent lateral adjustments for lamp and focusing lens to ensure a clear view of entire tympanic membrane and to assist surgical manipulation.

Wide-angle focusing lens.

Brilliant homogeneous illumination.

5 Keeler All-Nylon Specula, sizes 2·5 mm. to 8 mm. Unbreakable, boilable, comfortable for the patient.

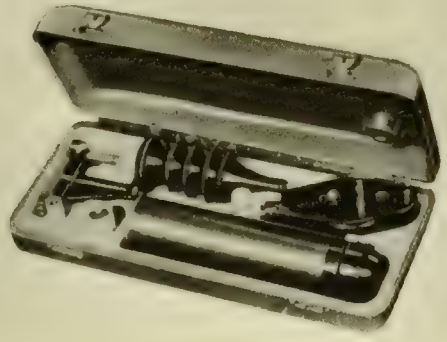
Black Nylon minimises troublesome reflexions.

Ample space for insertion of surgical instruments.

Metal handle with polychromatic grey finish.

Supplied with Siegle attachment at extra cost, when required.

Cat. No.		
	C3711A	
*C3711	THE KEELER "NEW ERA" OPERATING AURISCOPE, consisting of: Auriscope with five *Nylon* Specula, Large Battery Handle, battery and spare lamp; in leatherette-covered, plush-lined case .. .. complete	
C3711A	Ditto .. fitted with Siegle attachment .. .. complete	



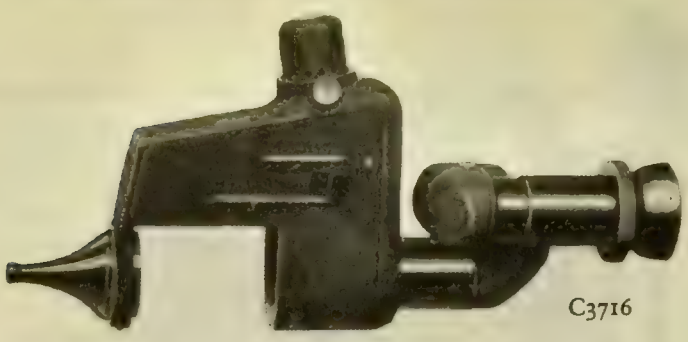
C3712B

*C3712A	THE KEELER "NEW ERA" "POPULAR" DIAGNOSTIC SET No. 2, consisting of: Auriscope (fig. C3711), Ophthalmoscope (fig. C3699), Large Battery Handle, battery and two spare lamps, in leatherette-covered, plush-lined case .. complete	
C3712B	Ditto .. in moulded case .. .. complete	
C3713	Spare Lamps for Keeler Operating Auriscopes .. .. .. each	
C3714	Ditto .. for Ophthalmoscopes C3712A–B .. .. .. each	
C3715	Spare Batteries for Keeler Handles (two E.R. U2 or equivalent type) .. per pr.	

The full range of Keeler Products are outlined in an illustrated leaflet which we shall be pleased to send on request.

**Not illustrated*

CLINICAL DIAGNOSIS INSTRUMENTS



C3716

Cat. No.

C3716 THE HALLPIKE-BLACKMORE MONOCULAR EAR MICROSCOPE, with five specula (2·5 mm. to 8 mm.), Siegle attachment and all accessories (except surgical instruments), in portable wooden case, 110–230 v. A.C. (see note in description regarding voltage) .. .. complete

C3717 Spare Lamps for above (old mount must be returned) .. .. each

C3718 SURGICAL INSTRUMENTS (extra), for use with Hallpike-Blackmore Ear Microscope, consisting of: Myringotome, two Ring Curettes (upward and downward) and three Wool Carriers .. .. per set

This new ear microscope has been developed to overcome certain disadvantages of existing instruments: in these the high magnification (× 10 and × 20) has generally been found to require special and inconvenient measures for the fixation of the subject's head. In addition, limitation of the field has made it impossible to obtain an overall view of the tympanic membrane.
These difficulties have been overcome in the Hallpike-Blackmore Ear Microscope, which facilitates accurate clinical diagnosis and operative work of high precision.

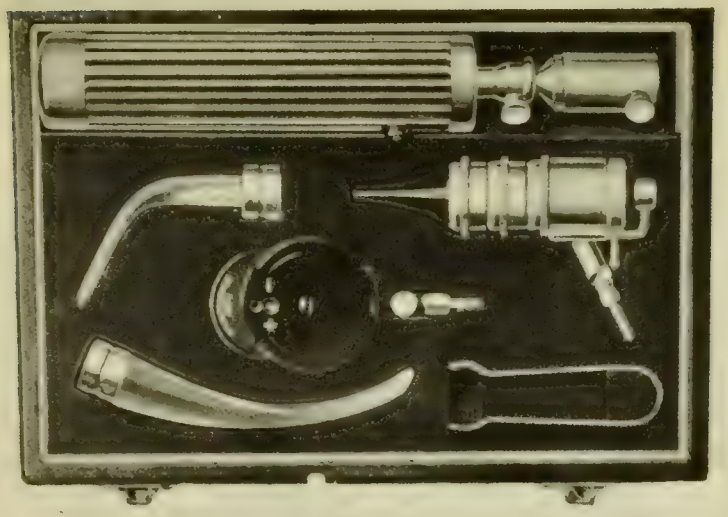
Special features from its specification are as follows:

- Homogeneous, double-intensity illumination from specially silvered, precentred 12-watt lamp.
- Unique optical system to permit vision along the illuminating axis, thereby ensuring shadowless deep penetration.
- High definition viewing system with optimum magnification (× 6).
- 8 mm. field to include the whole tympanic membrane.
- Unique iris diaphragm control in eye-piece to control field of view and eliminate reflections from speculum wall.
- Depth of focus includes anterior and posterior limits of membrane.
- Ample space for convenient manipulation of surgical instruments.
- Robust, small (7 in. overall), light and well-balanced for effortless use with one hand.

The instrument is supplied complete in portable case (14 in. by 9 in. by 4 in.). The fittings include a removable case for operating instruments, a covered compartment for the specula and Siegle attachment, and a built-in universal transformer for 110–230 volts A.C. supply (*when used on* 250 *volt current the selector should be at* 230 *volts and rheostat control should avoid "full-on" position*). The output selector panel has a 12 volt tapping for the Ear Microscope, but for added convenience 3 and 6 volt tappings are also provided for use with any instruments taking not more than 1 amp. Other useful features are the rheostat for control of brightness and the semi-circular sliding cord grip to eliminate the problem of knotted flex in the theatre or clinic.

The instrument greatly helps in the early recognition of small fluid collection, vascular tumours, etc., lying behind an imperforate tympanic membrane. With this ear microscope valuable information is also obtained from probe palpation of the tympanic membrane, granulations and other tympanic abnormalities.

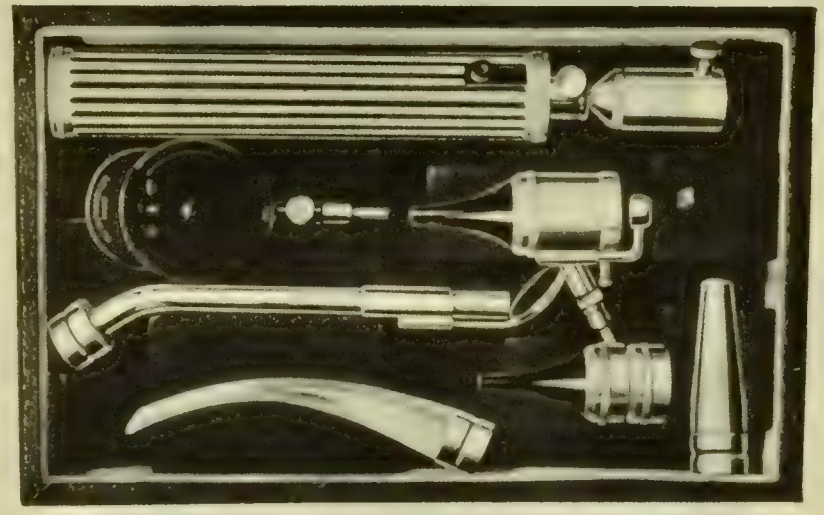
Fully described in an illustrated leaflet which we shall be pleased to send on request.



C3719

Cat. No.

C3719 "COLDITE" DIAGNOSTIC SET, consisting of: "May" Ophthalmoscope, Auriscope with three *Nylon* Specula, Nasal Speculum, Nasal Light Probe, Tongue Depressor, *Medium* Battery Handle with adaptor, battery and spare lamp for adaptor; in leatherette-covered case .. .. .. complete



C3720

C3720 "COLDLITE" DIAGNOSTIC SET, consisting of: "May" Ophthalmoscope, Auriscope with three *Nylon* Specula, Transilluminator, Tongue Depressor, Laryngeal Probe with mirror, *Medium* Battery Handle with adaptor, battery and spare lamp for adaptor; in leatherette-covered case .. .. complete

C3721 Ditto .. with *Large* Battery Handle .. .. .. complete

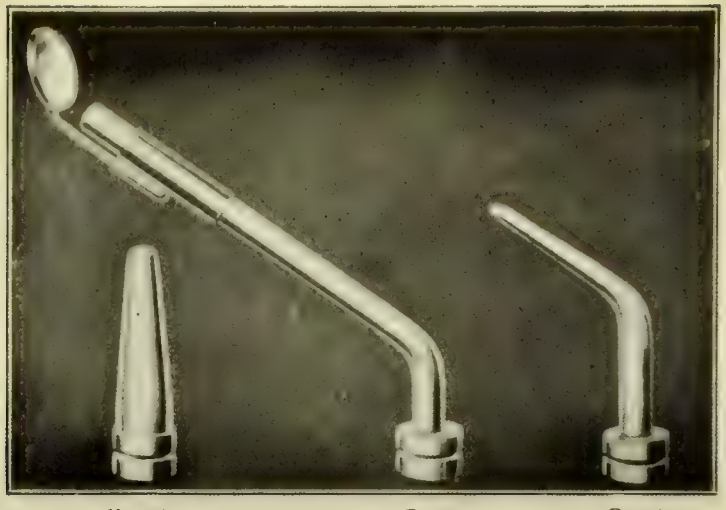
C3722 Spare Lamps for "Coldlite" Adaptors .. .. each

C3723 Ditto .. for "Coldlite" Ophthalmoscopes .. .. .. each

C3724 Batteries for *Medium* Handles (two E.R. U10 or equivalent type) .. per pr.

C3725 Ditto .. for *Large* Handles (two E.R. U2 or equivalent type) .. per pr.

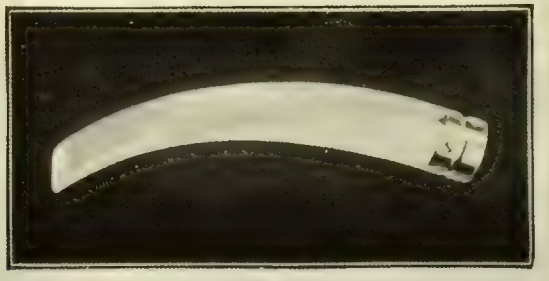
The full range of "Coldlite" Products are outlined in an illustrated leaflet which we shall be pleased to send on request.



C3726 C3727 C3728

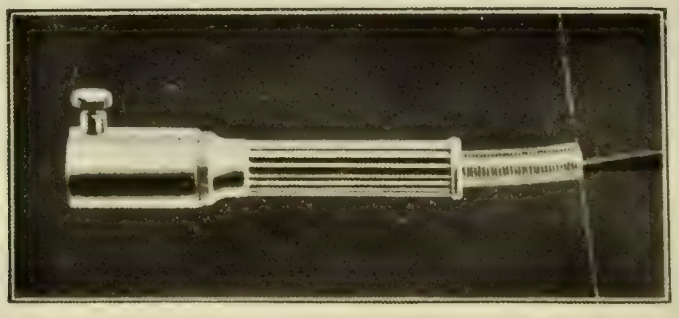
Cat. No.

C3726 "COLDLITE" TRANSILLUMINATOR, metal sleeved .. .. each
C3727 "COLDLITE" LARYNGEAL LIGHT PROBE, with mirror, silver sleeved, each
C3728 "COLDLITE" NASAL LIGHT PROBE, silver sleeved .. .. each



C3729

C3729 "COLDLITE" DEEP THROAT DEPRESSOR .. .. .. each
C3730 "COLDLITE" TONGUE DEPRESSOR, adults' size .. .. each
C3731 Ditto, children's size .. .. each



C3732

C3732 LIGHT ATTACHMENT, for use with above, from a transformer or battery box; with 4 in. handle, cables, adaptor and lamp .. .. each
C3733 Spare Lamps for above attachment .. .. each

Battery Boxes and Transformers: pages G154 *and* U233.

The full range of "Coldlite" Products are outlined in an illustrated leaflet which we shall be pleased to send on request.



C3734



C3736

Cat. No.

C3734 ADAPTOR, with Lamp, to fit "Coldlite" Medium and Large Battery Handles (below), chromium plated .. .. each

C3735 Spare Lamps for above .. .. each

C3736 ADAPTOR, to fit on to fig. C3734, for use with small "Coldlite" instruments: Tongue Depressors, etc. (figs. C3726–31), chromium plated .. .. each

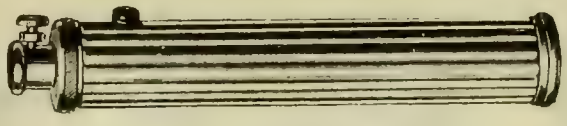


C3737

C3737 "COLDLITE" SMALL BATTERY HANDLE, with lamp and collar for small "Coldlite" instruments: Tongue Depressors, etc. (figs. C3726–31), chromium plated, each

C3738 Spare Lamps for above .. .. each

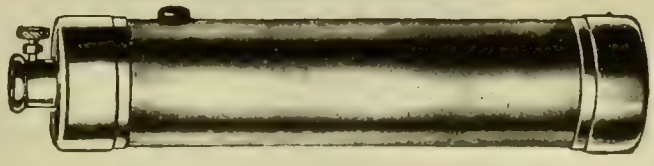
C3739 Batteries for above handle (two E.R. U12 or equivalent type) .. .. per pr.



C3740

C3740 "COLDLITE" MEDIUM BATTERY HANDLE, chromium plated each

C3741 Batteries for above (two E.R. U11 or equivalent type) .. .. per pr.



C3742

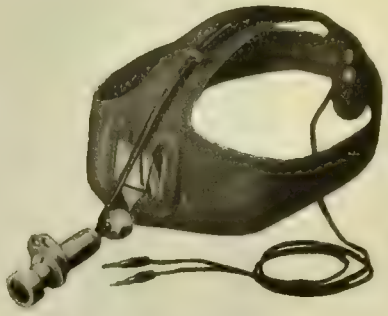
C3742 "COLDLITE" LARGE BATTERY HANDLE, chromium plated .. each

C3743 Batteries for above (two E.R. U2 or equivalent type) .. .. .. per pr.

The full range of "Coldlite" Products are outlined in an illustrated leaflet which we shall be pleased to send on request.



C3744



C3746

Cat. No.

C3744 HEADLAMP, with single focusing lens, adjustable fibre headband and rubber-covered cables, complete with lamp .. .. each

C3745 Spare Lamps .. .. each

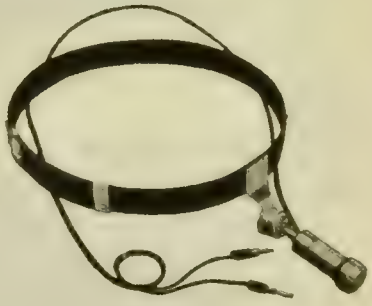
C3746 HEADLAMP, with optical system of lenses, and diaphragm, adjustable rubber headband and rubber-covered cables, complete with lamp .. .. each

C3747 Spare Lamps .. .. each

This headlamp has a special-optical system which gives a shadowless field of light with highest illumination in the centre. The size of the field can be reduced to a pin-point by means of a rotating disc with various apertures.



C3748



C3751

C3748 HEADLAMP, with optical system of lenses, lightweight metal headband fitted with replaceable sponge rubber pads and rubber-covered cables, complete with lamp .. .. each

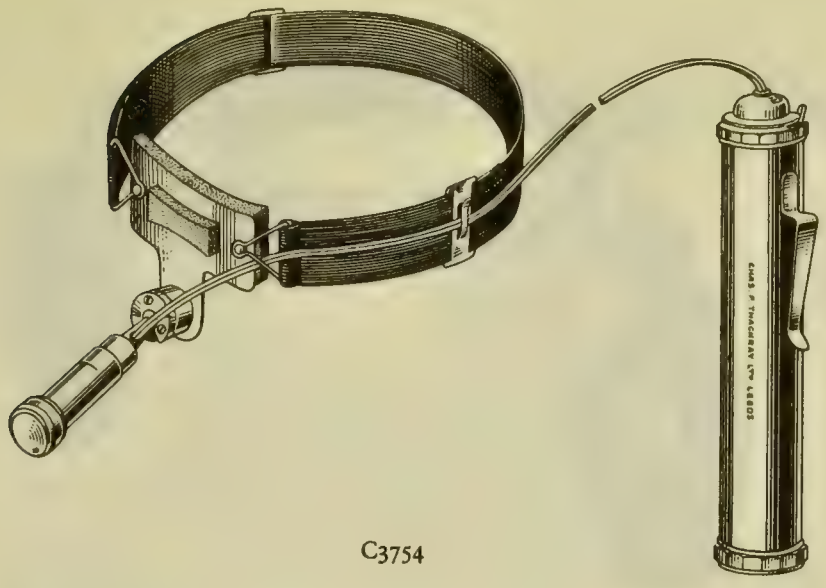
C3749 Spare Lamps .. .. each

C3750 Spare Sponge Rubber Pads for above .. .. each

C3751 HEADLAMP, with single adjustable lens, adjustable narrow fibre headband and rubber-covered cables, complete with lamp .. .. .. each

C3752 Ditto .. but with polythene headband .. .. each

C3753 Spare Lamps for above .. .. each



C3754

Cat. No.

C3754 HEADLAMP, with chromium plated battery handle fitted with rheostat and pocket clip, optical lens, adjustable webbing headband, lightweight metal forehead support with replaceable sponge rubber pad and rubber-covered cable (fits down back and under armpit to breast pocket), complete with lamp .. .. each

C3755 Spare Lamps for above .. .. each

C3756 Spare Batteries for above (three E.R. U2 or equivalent type) .. set

C3757 Spare Sponge Rubber Pads for above .. .. each



C3758

C3758 HEADLAMP, with adjustable focusing lens, adjustable webbing headband, lightweight metal forehead support with replaceable sponge rubber pad and rubber-covered cable with single pin terminal for diagnostic set battery handles (figs. C3659 and C3661), complete with lamp .. .. each

C3759 Spare Lamps for above .. .. each

C3760 Spare Sponge Rubber Pads for above .. .. each



C3761

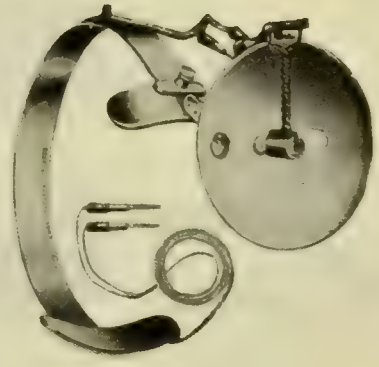
Cat. No.

C3761 HEADMIRROR, $3\frac{1}{2}$ in. diameter, with round hole and adjustable fibre headband, each

C3762 Ditto .. with polythene headband .. .. each



C3763



C3764

C3763 CLAR'S HEADMIRROR, half-circle, with lightweight metal headband fitted with replaceable sponge rubber pads and rubber-covered cables (with twin terminals for battery box or transformer), complete with lamp .. .. .. each

C3764 Ditto .. with full mirror .. .. each

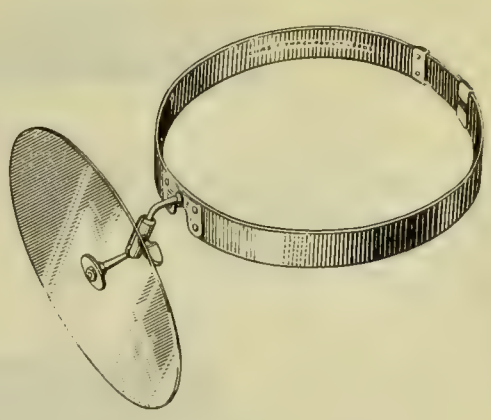
C3765 Spare Lamps for figs. C3763–4 .. .. each

C3766 Spare Sponge Rubber Pads for figs. C3763–4 .. .. .. each

Battery Boxes and Transformers: pages G154 *and* U233.



C3767



C3769

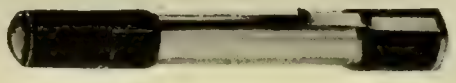
Cat. No.

C3767 HEADMIRROR, 3½ in. diameter, with round hole, bakelite back, lightweight metal forehead support fitted with replaceable sponge rubber pads, and adjustable webbing headband .. .. each

C3768 Spare Sponge Rubber Pads for above .. .. each

C3769 NEGUS' FACE SHIELD, consisting of: plastic disc attached by ball and socket joint to adjustable fibre headband .. .. complete

C3770 Spare Plastic Discs for above .. .. each



C3771

C3771 KEELER PEN TORCH, clip contact, with focusing attachment, battery and lens-top lamp, chromium plated .. .. each

C3772 Ditto .. *without* focusing attachment .. .. each

C3773 Spare Batteries for above (two E.R. U12 or equivalent type) .. .. per pr.

C3774 Spare Lamps for above .. .. each



C3775A

C3775 PEN TORCH, all metal, with clip contact, battery and lamp .. .. each

C3776 Spare Batteries for above (two E.R. U12 or equivalent type) .. .. per pr.

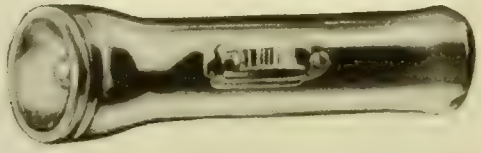
C3777 Spare Lamps for above .. .. each



C3778

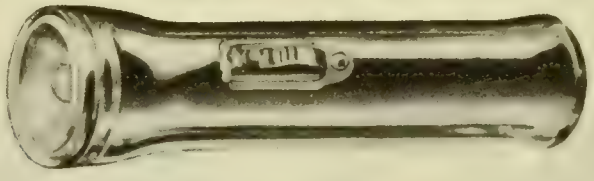
Cat. No.

C3778	PEN TORCH, with clip contact battery and lamp, nickel plated ..	each
C3779	Spare Batteries for above (two E.R. U12 or equivalent type)	per pr.
C3780	Spare Lamps for above	each



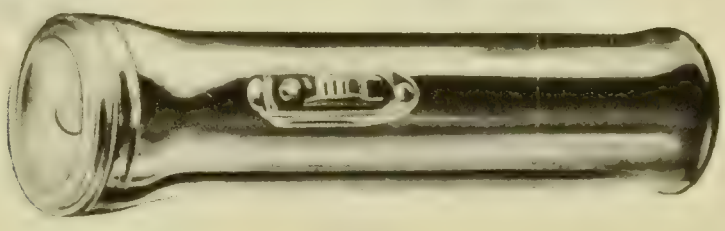
C3781

C3781	HAND TORCH, small, with thumb switch, battery and lamp, aluminium,	each
C3782	Spare Batteries for above (two E.R. U8 or equivalent type)	per pr.
C3783	Spare Lamps for above	each



C3784

C3784	HAND TORCH, medium, with thumb switch, battery and lamp, aluminium,	each
C3785	Spare Batteries for above (two E.R. U11 or equivalent type)	per pr.
C3786	Spare Lamps for above	each



C3787

C3787	HAND TORCH, large, with thumb switch, battery and lamp, aluminium,	each
C3788	Spare Batteries for above (two E.R. U2 or equivalent type)	per pr.
C3789	Spare Lamps for above	each



C3790



C3794

Cat. No.		
C3790	"ANGLEPOISE" EXAMINATION LAMP, **Table Model**, all black enamelled, *without bulb* .. .. each
C3791	Ditto .. all cream enamelled .. .. each
C3792	Ditto .. cream and gold mottled finish .. .. each
C3793	"ANGLEPOISE" EXAMINATION LAMP, **Desk Model**, all black enamelled, *without bulb* .. .. each
C3794	Ditto .. all cream enamelled .. .. each

THE "ANGLEPOISE" EXAMINATION LAMP: *one touch instantly adjusts the lamp to any desired position. Perfectly balanced by means of springs, the "Anglepoise" Lamp stays adjusted where desired. A special reflector provides concentrated light; each lamp is supplied with a push-bar switch and* 12 *ft. flex with lamp socket plug.*



C3795



C3797

Cat. No.

C3795 "ANGLEPOISE" EXAMINATION LAMP, **Wall Model**, all black enamelled, *without bulb* .. .. each

C3796 Ditto .. all cream enamelled .. .. each

C3797 "ANGLEPOISE" EXAMINATION LAMP, **Floor Model** with anti-static castors, all black enamelled, *without bulb* .. .. each

C3798 Ditto .. all cream enamelled .. .. each

C3798A Ditto .. hammer grey enamelled .. .. each

C3799 LENS ADAPTOR, to fit Floor Model "Anglepoise" Lamps (figs. C3797–8) provides a concentrated light, complete with special springs (to provide correct balance) *without bulb* .. .. each

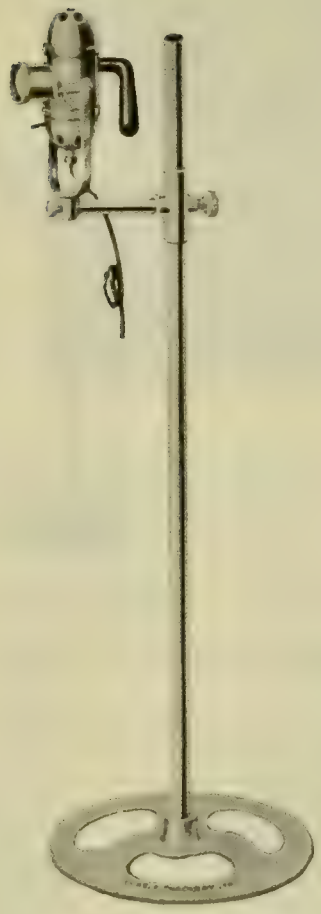
C3800 Ditto .. complete with shade .. .. each

THE "ANGLEPOISE" EXAMINATION LAMP: *one touch instantly adjusts the lamp to any desired position. Perfectly balanced by means of springs, the "Anglepoise" Lamp stays adjusted where desired. A special reflector provides concentrated light; each lamp is supplied with a push-bar switch and 12 ft. flex with lamp socket plug.*



C3801

C3801 **EXAMINATION LAMP**, *Hand*, nickel plated shade, wooden handle fitted with hook for hanging, 3-core cable, without bulb .. .. .. each



C3802



C3803

Cat. No.

C3802 EXAMINATION LAMP, E.N.T., **Floor Model,** chromium plated, cream enamelled, heavy base, *without bulb* .. .. each

*C3802A Ditto .. on four ball-bearing anti-static, rubber-tyred castors .. each

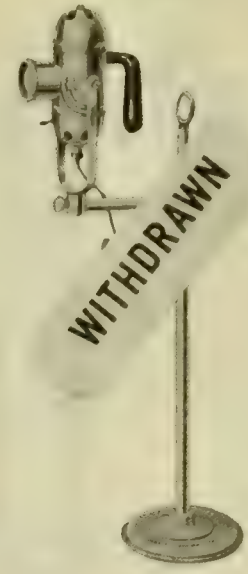
C3803 EXAMINATION LAMP, SWAN-NECK, **Floor Model,** flexible, chromium plated, cream enamelled base and upright, *without bulb* .. .. each

*C3804 Ditto .. with detachable Iris Diaphragm .. .. .. each

**Not illustrated*



C3805



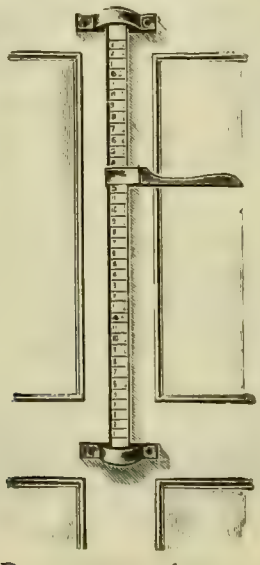
C3807

Cat. No.

C3805 EXAMINATION LAMP, SWAN-NECK, **Wall Model**, flexible, chromium plated, black enamelled bracket, *without bulb* .. .. .. each

*C3806 Ditto .. with detachable Iris Diaphragm .. .. .. each

C3807 EXAMINATION LAMP, E.N.T., **Table Model** with focusing lens, chromium plated, cream enamelled heavy base, *without bulb* .. .. .. each



C3808

C3808 MEASURING STANDARD, to screw on door or wall, folding flat when not in use. Metal covered hard wood to measure 3 ft. to 6 ft. 3 in. complete with brackets and screws (3 ft. 3 in. to 6 ft. 3 in., for EXPORT, to permit postal despatch). each

**Not illustrated*

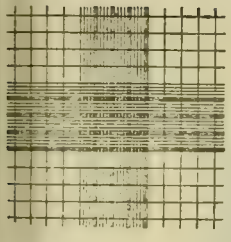


Cat. No.

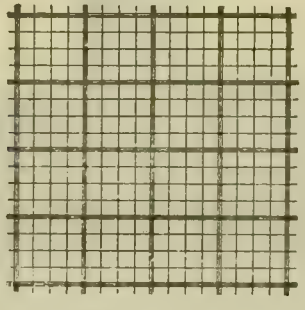
C3809 HÆMACYTOMETER, consisting of: B.S.S. Single Cell counting chamber with Type Neubauer, Bürker, Improved Neubauer or Fuchs-Rosenthal ruling, two plano Cover Glasses and pipettes for red and white corpuscles, in leatherette-covered case .. .. complete

C3810 HÆMACYTOMETER, but with B.S.S. Double Cell counting chamber, in leatherette-covered case .. .. complete

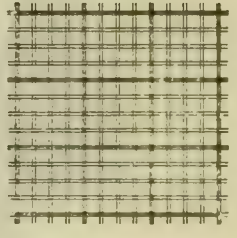
RULINGS



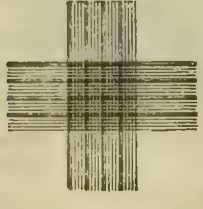
Neubauer (B.S.S. Type)



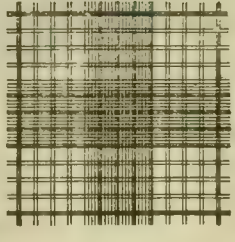
Fuchs—Rosenthal



Bürker (B.S.S. Type)



Thoma



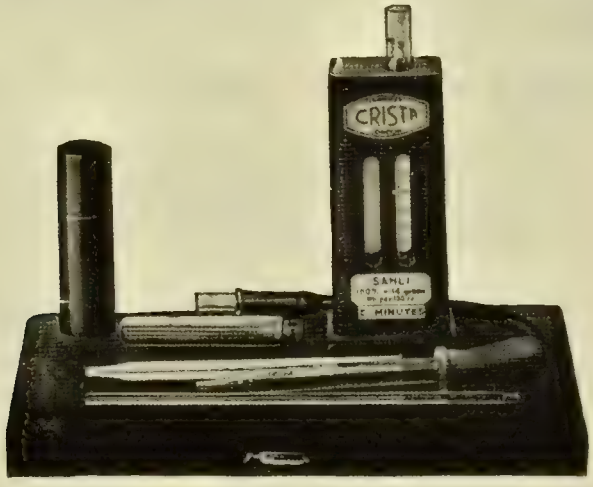
Türck

B.S.S. = British Standard Specification
For Spare Parts see overleaf

CLINICAL DIAGNOSIS INSTRUMENTS

HÆMACYTOMETER/SPARE PARTS

Cat. No.		
C3811	Counting chamber only, Single Cell, B.S.S.	each
C3812	Counting chamber only, Double Cell, B.S.S.	each
C3813	Red Cell Pipette giving dilution 1–100 B.S.S.	each
C3814	White Cell Pipette giving dilution 1–10 B.S.S.	each
C3815	Plano Cover Glasses, B.S.S. for single cell counting chamber, 16 x 22 mm.	per pr.
C3816	Ditto .. for double cell counting chamber, 22 x 23 mm. ..	per pr.
C3821	Counting chamber only, Circular (closed) Cell 0·02 mm. depth (Helber)	each
C3822	Counting chamber only, Manner's, Eosinophil	each
C3823	Red Cell Pipette giving dilution 1–100	each
C3824	White Cell Pipette giving dilution 1–10	each

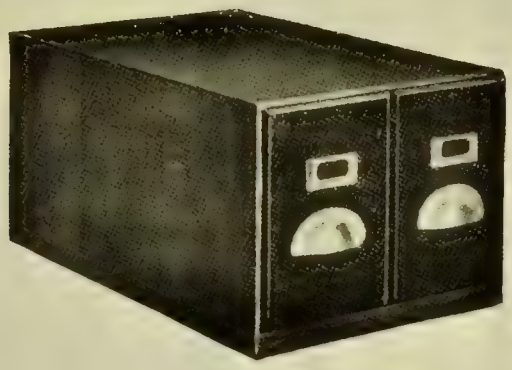


C3837

Cat. No.		
C3829	HALDANE HÆMOGLOBINOMETER, B.S.S., consisting of: Blood Standard, Graduated Tube in Comparator, 20 cmm. Pipette and Lancets, Drop Bottle, etc., in leatherette-covered case	complete
	SPARE PARTS:	
C3830	Blood Standard B.S.S.	each
C3831	Graduated Tube B.S.S.	each
C3832	20 cmm. Pipette B.S.S.	each
C3837	SAHLI'S HÆMOGLOBINOMETER with Standard in Comparator, Graduated Tube, 20 cmm. Pipette, Lancets, Acid Bottle, etc., in case ..	complete
	SPARE PARTS:	
C3838	Comparator with Sahli's Standard and Graduated Tube	each
C3839	Graduated Tube	each

B.S.S.=*British Standard Specification.*

*C3847A TALLQVIST'S HÆMOGLOBIN SCALE, in book form .. .. each



C3852

PAGES C708 AND C709 WITHDRAWN FROM THIS EDITION

Cat. No.

C3851 PATIENTS' RECORD CABINET, one drawer size, to hold 400 cards, polished light or dark oak veneer, with nickel plated fittings .. .. .. each

C3852 Ditto .. two drawer size, to hold 800 cards .. .. .. each

C3853 Ditto .. four drawer size, to hold 1,600 cards .. .. .. each

C3854 Ditto .. eight drawer size, to hold 3,200 cards .. .. .. each

C3855 Index Cards, A to Z .. .. per set

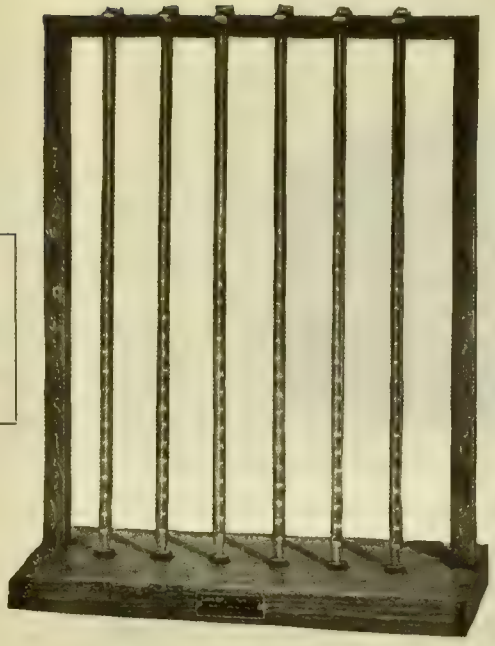


707-6699 DOCUMENT CASE with top frame, 17 in. × 12 in., chestnut coloured hide, reinforced with extra leather panels outside, two divisions with flap inside and washable lining.

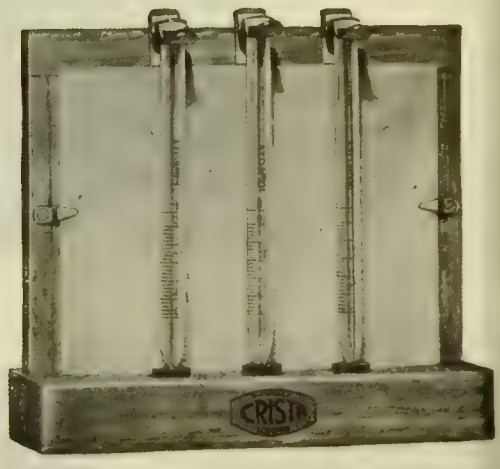
**Not illustrated*

CLINICAL DIAGNOSIS INSTRUMENTS

PAGES C708 AND C709 WITHDRAWN FROM THIS EDITION



C3856



C3863

Cat. No.

C3856 WESTERGREN'S SEDIMENTOMETER, consisting of: six Westergren Tubes graduated 0–200, wooden Stand for six tubes and *Special Syringe .. each

*C3857 WESTERGREN'S SEDIMENTOMETER, consisting of three Westergren Tubes, wooden Stand for three tubes and *Special Syringe, 2 c.c. .. each

SPARE PARTS:

C3858 Westergren Tubes .. .. each

C3859 Wooden Stand for six tubes .. .. each

C3860 Ditto .. for three tubes .. .. each

*C3861 Metal Westergren's Stand for six tubes, with cream enamelled back plate each

C3862 Special Syringe, holding 2·0 c.c. Record or Luer fitting .. .. each

C3863 MICRO-SEDIMENTOMETER, consisting of three Micro-Sedimentometer Tubes, wooden Stand for three tubes and Screw-cap Bottle .. .. each

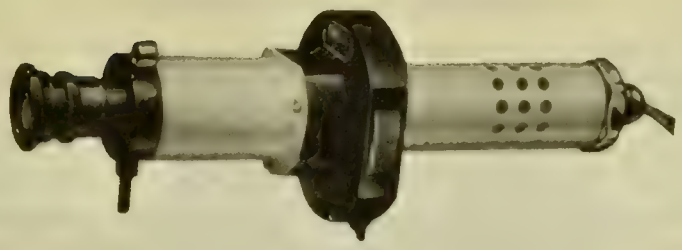
SPARE PARTS:

C3864 Micro-Sedimentometer Tubes .. .. each

C3865 Wooden Stand for three tubes .. .. each

C3866 Screw-cap Bottle .. .. each

**Not illustrated*



C 3870

Cat. No.

C3870 "M.R.C." GREY-WEDGE PHOTOMETER, with neutral testing standard and all accessories (listed below) in carrying case (*bulb included*) .. complete

ACCESSORIES:

1 cm. fused glass cell (two supplied)	each
0·02 ml. one-mark blood pipette and mouthpiece	each
4 ml. one-mark test-tube	each
Ungraduated test-tube	each
Hagedorn needle	each
Bottle of acetone	each
Bottle of 0·04% ammonia	each
Eyepiece filter No. 1	each
Eyepiece filter No. 2	each
Eyepiece filter No. 3	each
Neutral testing standard	each
Bulb, 110v. or 230v. A.C. (please state)	each

The Medical Research Council Photometer has been manufactured for the measurement of the optical density of coloured liquids. It is in use at M.R.C. research centres primarily in connection with hæmoglobin surveys. It is also useful for determinations of other constituents of blood, urine and C.S.F. The provision of the neutral testing accessory enables periodic check on observer and instrumental error and provides an accuracy which enables the Photometer to be used on large-scale research investigations involving use of many instruments over large territorial areas.

Special Features:

- Oxyhæmoglobin used at fixed dilution of 0·5% minimizes errors of progressive dilution methods.
- 2% sensitivity of setting ensured by well-designed optical field of view and matching by rotation of an annular wedge.
- Blood strength read off directly in % Haldane on an annular scale. Interconversion tables give grams Hb. and optical density.
- Neutral-glass testing standard provides constancy check and minimizes errors.
- Absolute calibration is made in terms of M.R.C. and N.P.L. research data.
- The Photometer is also suitable for blood ureas and other biochemical determinations.
- Detachable mains-lighting unit enables the instrument to be used in daylight.
- Supplied with accessories and reagents in a compact carrying case.

Each Photometer is rigorously tested at laboratories for conformity with standards supplied by the National Physical Laboratory, and is complete with glassware, reagents, neutral standard and three filters in case fitted with a rack to take 12 test-tubes and a recess for 6 glass cells. The increasing use of the M.R.C. Photometer with its standardised accuracy makes the instrument one of value to every pathologist and pathological unit.

When ordering, please state Voltage.

Fully described in an illustrated leaflet which we shall be pleased to send on request.

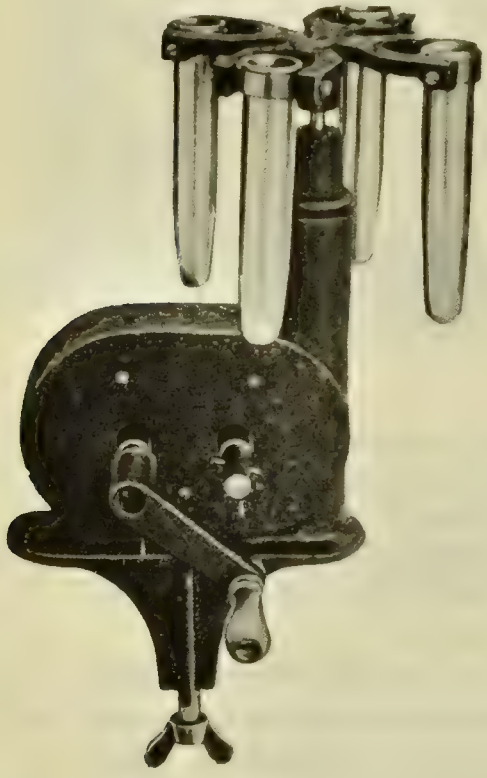
CLINICAL DIAGNOSIS INSTRUMENTS

HAND-DRIVEN CENTRIFUGES

These machines are of highest quality British manufacture, and are of robust design, being especially suited for the usual routine blood and urine tests; all heads are instantly interchangeable with the Hæmatocrite frame, which is intended for use, of course, with the 2-speed type only.

It should be noted that the Protecting Bowl and Cover, which is available as an optional extra, gives an *increase of maximum speed* available of approximately 40—50%, owing to the greatly reduced windage.

These protecting Bowls and Covers may be ordered either with the machine or subsequently, as no tools are required to fit them; a single knurled head screw secures the bowl rigidly to the machine.



C3871

SPECIFICATION.

GENERAL DESIGN: Incorporates a substantial main casting, carrying a clamping thumbscrew for fixing to table or bench, thus avoiding the necessity for loose clamping devices.

GEARS: A *gunmetal* wormwheel meshes with steel worm spindle, provided with a *ball thrust*. *Gunmetal* spur and pinion wheels provide the multiplying gear in the 2-speed model, and the upwards thrust on the worm spindle when using the multiple gear is taken by a "*Skefco*" thrust race.

HEAD: The heads for 2 and 4 tubes are machined from *light alloy* castings, carrying *turned brass* swivel rings, and are instantly removable from the spindle, being positively driven by slot and pin.

BUCKETS: These are manufactured from material of adequate gauge, and are finished with a high polish.

CRANK HANDLE: Is instantly detachable, the drive being self-releasing.

GEAR RATIOS: Single speed 16 to 1. Double speed 37 to 1.

FINISH: Best crystalline enamel, nickel-plated fittings.

Cat. No.		2 *Tube*	4 *Tube*
C3871	HAND-DRIVEN CENTRIFUGE, double speed ..	each	
*C3873	Ditto .. single speed	each	
*C3875	PROTECTING BOWL and COVER, for above ..	each	
*C3876	CENTRIFUGE TUBES, glass, plain, 15 c.c. ..	per doz.	
*C3877	Ditto .. 15 c.c. graduated	per doz.	
*C3877A	Ditto .. 25 c.c. „	per doz.	
*C3877B	Ditto .. 50 c.c. „	per doz.	
*C3877C	Ditto .. 100 c.c. „	per doz.	

Other sizes to order.
**Not illustrated*

CENTRIFUGE MODEL "X" ELECTRIC



C3878

This machine is of highest quality manufacture, and is intended primarily to cover all normal requirements for routine blood and urine tests, etc., where the volume of work does not require more than 4 tubes to be carried at one time; at the same time the machine is of robust design and construction, and is capable of *running at maximum speed for long periods*, when dealing with difficult suspensions.

GENERAL DESIGN

Incorporates a high quality vertical motor, built within a massive cast iron base-housing, and surrounded by a heavy-gauge steel protecting bowl and cover, provided with lifting handles and spring fixing clips.

MOTOR 1/20 H.P.

The motor is of the highest quality, fitted throughout with *ball radial and thrust races*, and is specially designed to be capable of running for long periods at maximum speed without exceeding the permissible temperature rise.

An *important feature* in the design of the motor is that it is provided with *dual windings*, with separate terminal connections for either A.C. or D.C., thereby ensuring similar performance on either kind of supply; the majority of similar machines, fitted with the usual single winding universal motor, will be found to give a *maximum speed on load between* 30% *to* 50% *lower on A.C. than on D.C.*

This point should be carefully noted when comparing specifications of similar machines. A polished aluminium *Anti-splash Guard* is fitted to protect the motor and bearings.

[*continued overleaf*

CLINICAL DIAGNOSIS INSTRUMENTS

CENTRIFUGE MODEL "X" ELECTRIC
(continued)

HEAD

Is machined from a light alloy casting, carefully balanced and carries 2 or 4 metal buckets suitable for 15 c.c. plain or graduated tubes.

SPEED

Maximum speed available is 3,500 r.p.m., and can be regulated down to 1,500 r.p.m by means of the regulating rheostat, if required; we recommend the use of the rheostat in any case to ensure a gentle start from rest.

REGULATING RHEOSTAT

Is combined with *starting switch*, and is of the highest quality *enclosed sliding type.*

FINISH

Grey cellulose enamel, all fittings nickel plated.

ANTI-VIBRATION RUBBER CUSHIONS

Of the "sucker" type are fitted to the base-housing of the machine, enabling it to run smoothly on any bench, table, or reasonable level surface.

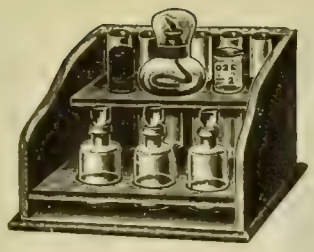
EQUIPMENT

Every machine is furnished with detachable head, set of polished nickel plated metal buckets of strong gauge and length of flexible cable terminating in a *special combined fitting* enabling the machine to be instantly connected to either a lamp-holder or 2-pin lighting socket.

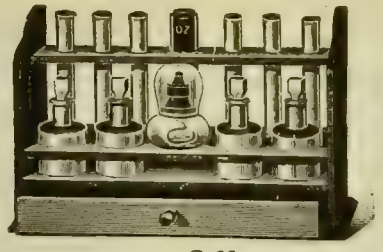
Cat No.		
†C3878A	ELECTRIC CENTRIFUGE, MODEL "X", with head for 4 × 15 c.c. tubes, complete with regulating Rheostat	each
†C3879A	ELECTRIC CENTRIFUGE, MODEL "2X", motor ⅛ H.P., with head for 8 × 15 c.c. tubes, complete with regulating Rheostat	each
†C3880	Ditto .. with head for 8 × 25 c.c. tubes (round bottomed tubes) ..	each
†C3881	Ditto .. with combination head for 4 × 15 c.c. and 4 × 25 c.c. tubes ..	each
C3882	REGULATING RHEOSTAT with starting switch	each
C3883	SPEED INDICATOR	each
C3884	HÆMATOCRITE FRAME (including blood tubes)	each
*C3885	CENTRIFUGE TUBES, glass, plain, 15 c.c.	per doz.
*C3885A	Ditto .. 15 c.c. graduated	per doz.

*Other sizes see page C712.

†*When ordering, please state Voltage and whether A.C. or D.C.*



C3886

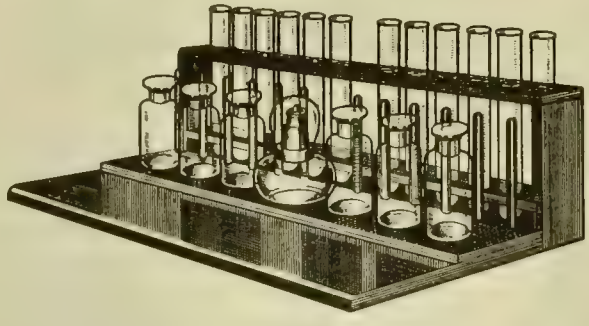


C3887

Cat. No.

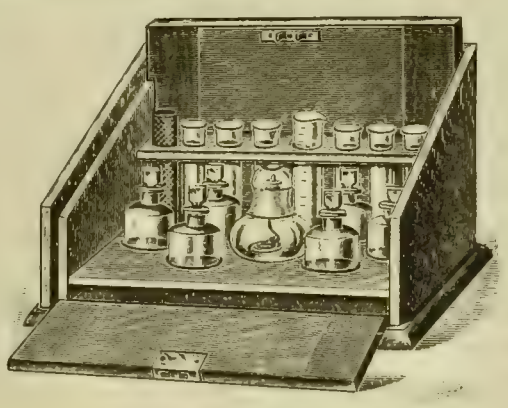
C3886 URINE TEST OUTFIT, mahogany stand with three stoppered bottles, spirit burner, trial jar, urinometer and six test tubes .. .. complete

C3887 URINE TEST OUTFIT, mahogany stand with drawer, four stoppered bottles, spirit burner, trial jar, urinometer, six test tubes, pipette, stirring rod, litmus and turmeric papers .. .. complete



C3888

C3888 URINE TEST, OUTFIT, mahogany stand with glass slab, six stoppered bottles, spirit burner, trial jar, urinometer and twelve test tubes .. complete

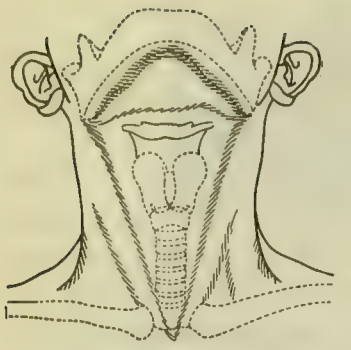


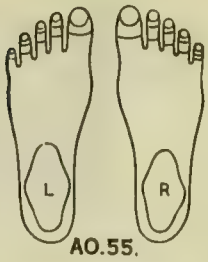
C3889

C3889 URINE TEST OUTFIT, mahogany stand with drop-back lid and fall-front, with six stoppered bottles, spirit burner, trial jar, urinometer and six test tubes, complete

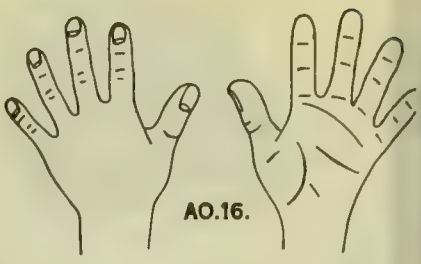
C3890 Ditto .. with drawer underneath .. .. .. complete

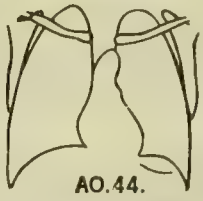
**Not illustrated*

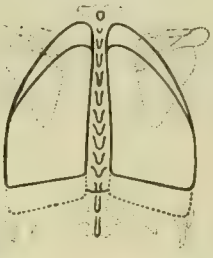

AO.1.



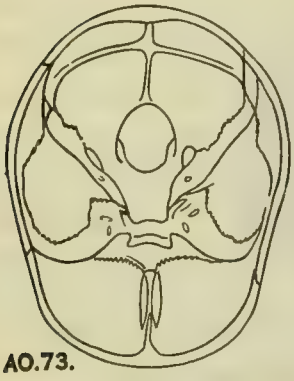
AO.55.

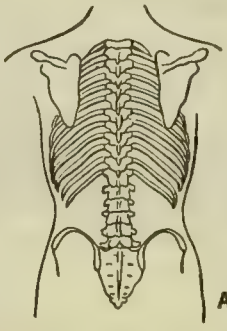

AO.16.


AO.44.


AO.67.


AO.79.


AO.73.


AO.80.


AO.81A.

C3891–99

ANATOMICAL STAMPS, rubber, line diagrams:

Cat. No.	Ref.		
C3891	AO.1	Larynx and Trachea (Anterior)	each
C3892	AO.16	Left Hand, showing skin creases (Dorsal and Palmar) ..	each
C3893	AO.44	Lung Fields (Tomogram)	each
C3894	AO.55	Foot (Dorsum) right and left	each
C3895	AO.67	Lungs and Pleura (Posterior)	each
C3896	AO.73	Base of Skull (Superior)	each
C3897	AO.79	Body (Anterior)	each
C3898	AO.80	Thoracic, Lumbar, Sacral, Supine and Ribs (Posterior) ..	each
C3899	AO.81A	Bones of Hand, right (Anterior)	each

The above are a few examples of the entire range which covers every field of anatomical diagrams. A complete list is available on request.



C3900

Cat. No.		
C3900	SKELETON, articulated, No. 1, with hook for hanging	each
C3901	CABINET for above, metal	each
C3902	STAND for above, metal, adjustable for height	each
C3903	SKELETON, disarticulated, complete in box	each
C3904	HALF SKELETON: skull with horizontal section, vertebral column, os innominatum, sacrum, sternum, hand, scapula, clavicle, humerus, radius, ulna, foot, femur, patella, tibia, fibula and ribs of one side, complete in box	each
C3905	SKULL, articulated, horizontal section	each
C3906	Ditto .. horizontal and vertical sections	each
C3907	SKULL, disarticulated, best quality in box	each
C3908	Ditto .. medium quality	each
C3909	FEET, strung on catgut	each
C3910	FEMALE PELVIS, with Ligaments and Fœtal Skull	each
C3911	FŒTAL SKULL	each
C3912	HANDS, strung on catgut	each

FROHSE'S ANATOMICAL WALL CHARTS, life size, coloured, single plates, on cloth with plain rollers:

Cat. No.	Ref.		
C3913	1.	Skeleton, anterior and posterior views	each
C3914	2.	Muscles, anterior and posterior views	each
C3915	3.	Nervous and Circulatory Systems	each
C3916	4.	Schematic Diagram of Circulation Heart and Skin	each
C3917	5.	Eye and Ear	each
C3918	6.	Viscera of Chest and Abdomen, four successive views	each
C3919	7.	Median Section through Head, Brain, Neck and Teeth	each
C3920	8.	New. Digestive Tract	each
C3921	9.	New Endocrine Glands	each
C3922	10.	Male and Female Urogenital Organs	each

[*Charts continued overleaf*

Charts, continued

ANATOMY and PHYSIOLOGY WALL CHARTS, on cloth with plain rollers, coloured:

Cat. No.	Ref.		
C3923	600A.	Heart (normal), greatly enlarged	each
C3924	600B.	Digestive System, enlarged	each
C3925	600C.	Throat Pharynx and Larynx, enlarged	each
C3926	600D.	Kidney, *in situ*, greatly enlarged	each
C3927	600J.	New, Respiratory System	each
C3928	600M.	Human Embryology (development of the human body) ..	each
C3929	600R.	Protective Mechanism of the Eye, greatly enlarged	each
C3930	600T.	Skeleton, front view with the main arteries and pressure points, on black background, size: 55 in. by 30 in.	each
C3931	600U.	Skin, greatly enlarged	each
C3932	600V.	Human Factory	each

TWO CHARTS OF FULL FIGURE ON BLACK BACKGROUND:

	Ref.		
C3933	600X.	Large. Anterior aspect stressing the relationship of the Skeleton, Circulation and Vital Organs, *in situ*	each
C3934	600X1.	Large. A Study of the Nerves on the background of the posterior aspect of the Skeleton and the Muscles and Vital Organs, *in situ* ..	each
		The above two Charts grouped and combined on one plate, side by side,	each
C3935	600Y.	New. Centre of Nerves and relation between the Brain and Heart,	each
C3936	600Z.	New. Bacteriology	each

NEW CHARTS DRAWN AND DESIGNED UNDER THE SUPERVISION OF PROF. C. F. V. SMOUT, BIRMINGHAM UNIVERSITY. On cloth with plain rollers, coloured:

	Ref.		
C3937	601A.	Fractures	each
C3938	601B.	Dislocations	each
C3939	601D.	Lymphatic System, Fig. 1: Superficial Lymphatics. Fig. 2: Thoracic Duct and its Tributaries, complete with Teacher's Illustrated Manual,	each
C3940	601F.	Foetal Circulation, life size, coloured, complete with Teacher's Key,	each

NEW SERIES OF HUMAN ANATOMICAL AND PHYSIOLOGICAL WALL CHARTS BY P. SOUGY. These permanent charts replace hastily constructed blackboard diagrams. Purely schematic representation in white and colours printed on a black background. The dimensions and proportions are depicted with great accuracy and are drawn from dissected specimens.

Mounted on cloth with plain rollers, size 3 ft. 4 in. by 4 ft. 4 in. .. each

Ref.		Ref.	
C3941	S. 1. Vertebræ and Vertebral Column.	S.28.	Muscular Tissue.
C3942	S. 4. Girdles and Extremities.	S.34.	Sensory and Motor Tracts.
C3943	S. 5. Skull and Dentition.	S.35.	Brain.
C3944	S. 6. Heart and Circulation.	S.36.	Structure of Bone.
C3945	S. 7. Digestive System.	S.37.	Ossification, etc.
C3946	S. 8. Respiratory System.	S.38.	Development of the Encephalon.
C3947	S. 9. Spinal Cord.	S.41.	Kidney.
C3948	S.25. Sympathetic and Parasympathetic.	S.42.	Ear.
C3949	S.26. Nervous Tissue.	S.43.	Endocrine Glands.
C3950	S.27. Medulla Oblongata.		

HYGIENE and SANITATION CHARTS:

	Ref.		
C3951	NWS/1.	Plumbing and Sanitation, size: 53 in. by 32 in.	each
C3952	NWS/2.	Building Drainage 1, size: 48 in. by 30 in.	each
C3953	NWS/3.	Building Drainage 2, size: 48 in. by 30 in.	each
C3954	HWS/4.	Water Supply (Domestic) Distribution, size: 48 in. by 30 in.,	each
C3955	HWS/5.	Water Supply (Sources), Springs, Wells, etc., size: 48 in. by 30 in.,	each

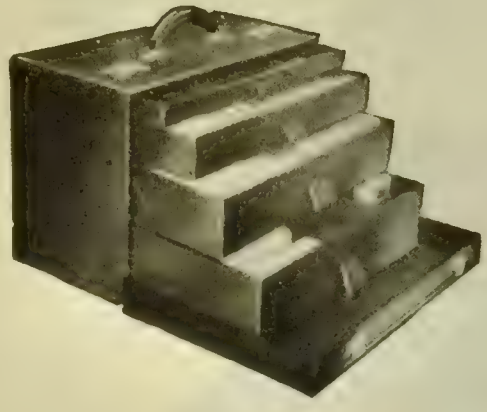
Each Chart complete with explanation notes.



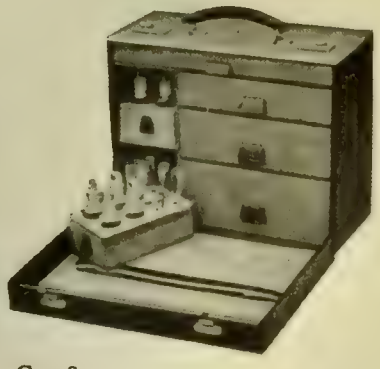
C3956

Cat. No.

C3956 PRACTITIONER'S CASE, with three drawers. Size: 14½ in. by 10¾ in. by 6½ in., †long grain real hide, black or brown .. .. .. each



C3957



C3958

C3957 PRACTITIONER'S CASE, with four drawers. Size: 16 in. by 12 in. by 8 in., †long grain real hide, black or brown .. .. each

C3958 PRACTITIONER'S CASE, with four drawers, two wood racks, small urine test outfit, spirit burner, and four 1 oz. stoppered bottles. Size: 14½ in. by 11¼ in. by 6½ in., †long grain real hide, black or brown .. .. .. each

†Plain smooth hide can be supplied at extra cost.

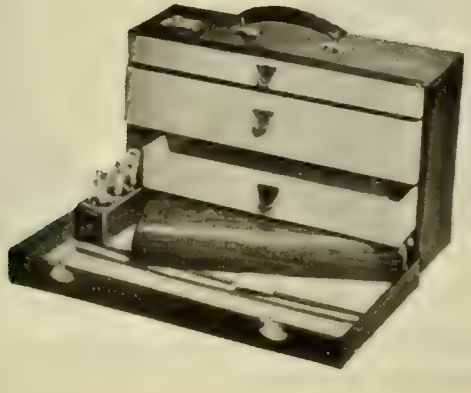
Midwifery Cases: pages M272–3.



C3959

Cat. No.

C3959 PRACTITIONER'S EMERGENCY CASE, with four drawers, compartment size 13¼ in. by 5 in. by 2⅜ in. for mercurial sphygmomanometer, space with flap cover to take diagnostic set, loops for instruments, etc., with flap cover, wooden rack and six stoppered bottles. Size: 18 in. by 9⅞ in. by 7⅞ in., †long grain real hide, black or brown .. .. each



C3960

C3960 PRACTITIONER'S CASE, with three drawers, compartment size 15 in. by 5½ in. by 2¾ in. for mercurial sphygmomanometer, wooden rack and three stoppered bottles. Size: 15 in. by 5½ in. by 2¾ in., †long grain real hide, black or brown (sphygmo. extra) .. .. each

†*Plain smooth hide can be supplied at extra cost.*

Midwifery Cases: pages M272–3.



Cat. No. C3961

C3961 PRACTITIONER'S CASE, with five drawers and document pocket inside of lid, size: 13¼ in. by 11 in. by 5¼ in., †long grain real hide, black or brown .. each



C3962

C3962 PRACTITIONER'S CASE, with five drawers, document pocket inside of lid, wooden rack and six stoppered bottles. Size: 14¼ in. by 11¼ in. by 7 in., †long grain real hide, black or brown .. .. each

†*Plain smooth hide can be supplied at extra cost.*

Midwifery Cases: pages M272–3.



C3963

Cat. No.

C3963 PRACTITIONER'S CASE, with four drawers and document pocket inside of lid. Size: 14½ in. by 10½ in. by 6½ in., †long grain real hide, black or brown, each



C3964

C3964 PRACTITIONER'S CASE with five drawers, compartment size 13¼ in. by 5 in. by 2¾ in. for mercurial sphygmomanometer and document pocket inside of lid. Size: 18 in. by 10 in. by 5½ in., †long grain real hide, black or brown .. each

†*Plain smooth hide can be supplied at extra cost.*

Midwifery Cases: pages M272–3.



C3965

Cat. No.

C3965 PRACTITIONER'S CASE, with document pocket inside lid and hinged flap, with loops for panel papers, etc. Size: 13¾ in. by 9 in. by 3¾ in., *smooth* grain real hide, brown .. .. each

C3966 Ditto .. size: 14½ in. by 10¾ in. by 4¾ in. .. .. .. each



C3967

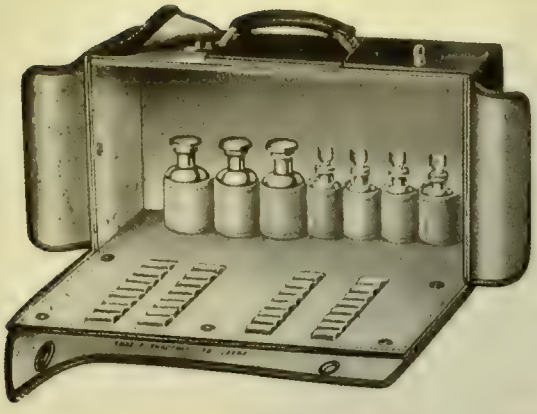
C3967 SURGEON'S KIT BAG, with white, detachable washable lining fitted with loops for bottles, instruments, etc. Size: 16 in. long; cowhide, black or brown, each

C3968 Ditto .. 18 in. .. .. each

C3969 Spare Linings for fig. C3967 .. .. each

C3970 Spare Linings for fig. C3968 .. .. each

Midwifery Cases: pages M272–3.



OPEN



C3971 CLOSED

Cat. No.

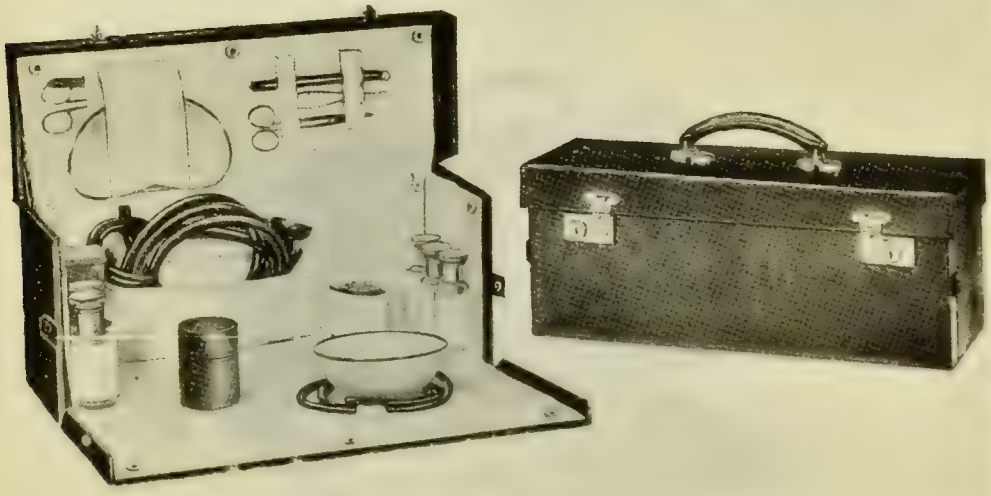
C3971 NURSE'S CASE, aluminium, with white detachable washable lining, fitted with loops for bottles and instruments, etc. (extra) and detachable waterproof outer cover with pocket at back. Size: 12 in. by 8 in. by 5 in. .. .. each

C3972 Ditto .. 15 in. by 8 in. by 5 in. .. .. each

C3973 Spare Linings for fig. C3971 .. .. each

C3974 Spare Linings for fig. C3972 .. .. each

Bottles, and instruments to choice can be supplied to order.



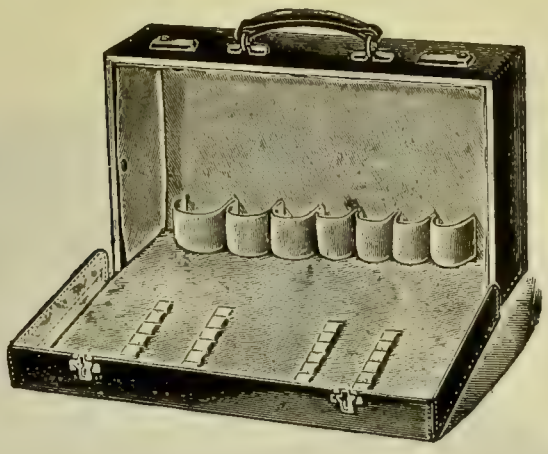
C3975

C3975 NURSE'S CASE, fall-front, with white detachable, washable lining fitted with pockets and loops for bottles and instruments, etc. (extra). Size: 16 in. by 5⅜ in. by 6⅜ in., long grain real hide, black or brown .. .. .. each

C3976 Spare Linings for above .. .. each

Bottles, and instruments to choice can be supplied to order.

Midwifery Cases: pages M272-3.



C3977

Cat. No.

C3977 NURSE'S CASE, with white detachable washable lining, fitted with loops for bottles and instruments, etc. Size: 14 in. by 8 in. by 5 in., long grain real hide, black or brown .. .. each

C3978 Ditto .. 16 in. by 9 in. by 5 in. .. .. each

C3979 Spare Linings for fig. C3977 .. .. each

C3980 Spare Linings for fig. C3978 .. .. each

Bottles, and instruments to choice can be supplied to order.



C3981

C3981 NURSE'S BAG, with white detachable washable lining, fitted with long pocket and loops for bottles, etc. Size: 13 in. long, metal frame, long grain real hide, black, each

C3982 Ditto .. 14 in. long .. .. each

C3983 Spare Linings for fig. C3981 .. .. each

C3984 Spare Linings for fig. C3982 .. .. each

Midwifery Cases: pages M272–3.



PM3985

Cat. No.

PM3985 POST MORTEM SET, consisting of:

Six Scalpels (Nos. 1–6), fig. G279.
Two Cartilage Knives, fig. PM3987.
One Catlin, fig. PM3989.
One Brain Knife, fig. PM3994.
One Blowpipe, chromium plated, fig. PM3996.
One Chisel, straight, fig. PM3998.
One Spine Chisel, fig. PM4000.
One Chisel-Wrench, fig. PM4001.
One Hammer, fig. PM4003.
One Mallet, boxwood, fig. PM4004.
One Saw, s.s. blade, chromium plated handle, fig. PM4008.
One Dissecting Forceps, 5 in., fig. PM4011.
One Dissecting Forceps, 7 in., fig. PM4013.
One Bowel Scissors, fig. PM4019.
One Dissecting Scissors, fig. PM4023.
One Skull Rest, fig. PM4027.
One Lund's Coronet, fig. PM4028.
One Chain Hooks Set, fig. PM4029.
One Packet Needles, carbon steel, fig. PM4033.
One Ball of Linen Thread.

†Set of all the above in brass-bound mahogany case .. .. complete

†*All of stainless steel unless otherwise stated.*

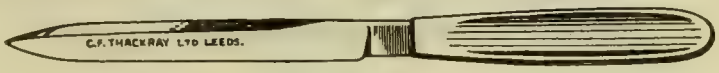


PM3986

Cat. No.

PM3986 CARTILAGE KNIFE, with 3 in. deep bellied blade, nickel plated, ebony handle, each

PM3987 Ditto .. solid forged, stainless steel .. .. each

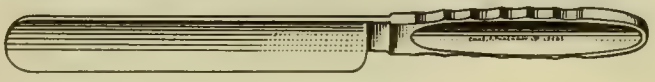


PM3988

PM3988 CATLIN, with 5½ in. blade, nickel plated .. .. each

PM3989 Ditto .. stainless steel .. .. each

Scalpels: page G43.



PM3990

PM3990 BRAIN KNIFE, with 6 in. blade, nickel plated .. .. .. each

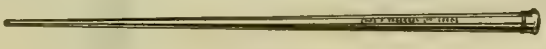
PM3991 Ditto .. 8 in. blade .. .. each

PM3992 Ditto .. 10 in. blade .. .. each

PM3993 Ditto .. 6 in. blade, stainless steel .. .. each

PM3994 Ditto .. 8 in. blade .. .. each

PM3995 Ditto .. 10 in. blade .. .. each



PM3996

PM3996 BLOW-PIPE, straight, chromium plated .. .. each

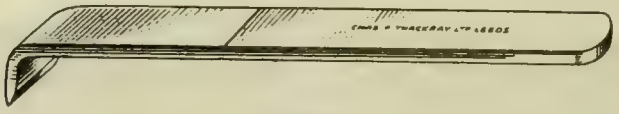
PM3997 Ditto .. curved .. .. each



PM3998

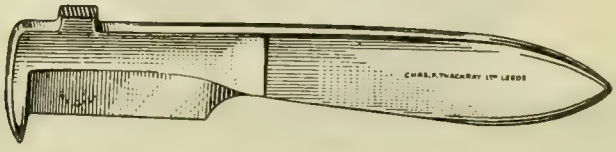
Cat. No.

PM3998 CHISEL, straight $\frac{3}{4}$ in. wide, stainless steel .. .. each



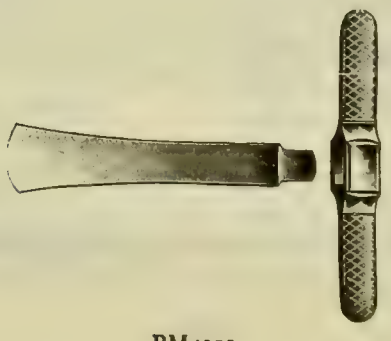
PM3999

PM3999 CHISEL, angular, $\frac{3}{4}$ in. wide, stainless steel.. .. .. .. each



PM4000

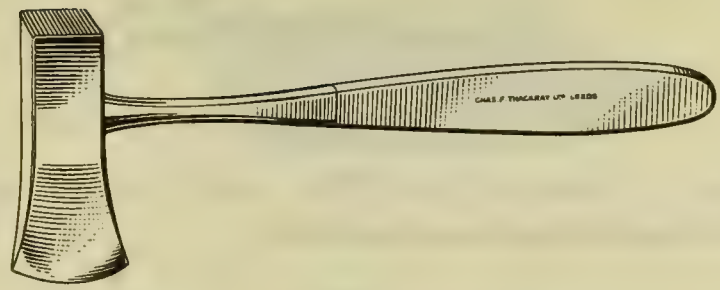
PM4000 SPINE CHISEL, stainless steel .. .. each



PM4001

PM4001 CHISEL-WRENCH, with detachable T-handle, stainless steel .. each

PM4002 Ditto .. with fixed handle .. .. each



PM4003

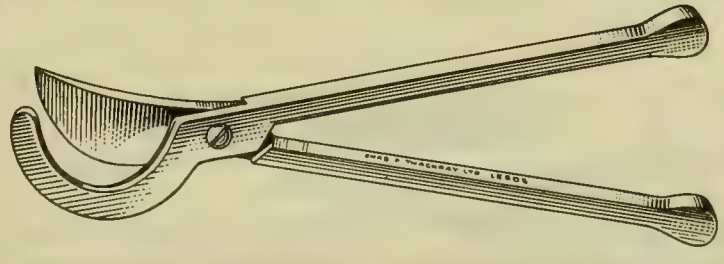
Cat. No.

PM4003 HAMMER, with chisel blade, stainless steel .. .. .. each



PM4004

PM4004 MALLET, boxwood, ½ lb., diameter of head: 1⅞ in. .. .. .. each
PM4005 Ditto .. 1 lb., diameter of head: 2¼ in. .. .. each
PM4006 Ditto .. 2 lb., diameter of head: 2⅝ in. .. .. each



PM4007

PM4007 RIB SHEARS, 12 in., stainless steel .. .. each

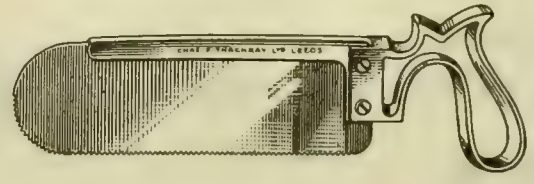
Rib Shears: see also pages L430–4.



PM4008

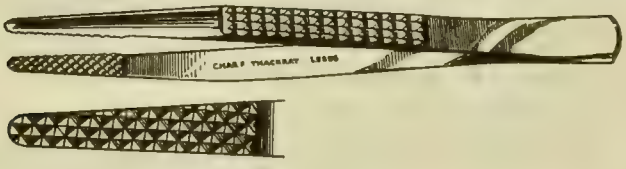
Cat. No.

PM4008 SAW, stainless steel blade, chromium plated handle .. .. .. each



PM4009

PM4009 SAW, stainless steel blade, chromium plated handle .. .. .. each



PM4010

PM4010 SHENNEN'S DISSECTING FORCEPS, with coarse teeth, 7 in., stainless steel, each



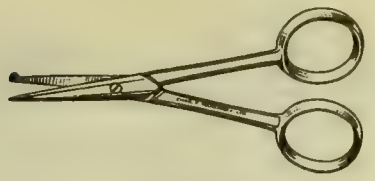
PM4011

PM4011 DISSECTING FORCEPS, turn-over end, serrated jaws, 5 in., stainless steel, each

PM4012 Ditto .. 6 in. .. .. each

PM4013 Ditto .. 7 in. .. .. each

PM4014 Ditto .. 8 in. .. .. each



PM4015

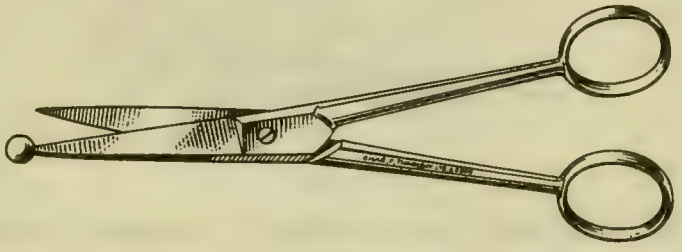
Cat. No.

PM4015 BLOOD VESSEL SCISSORS, with one blade probe-pointed, 4 in., stainless steel .. .. each



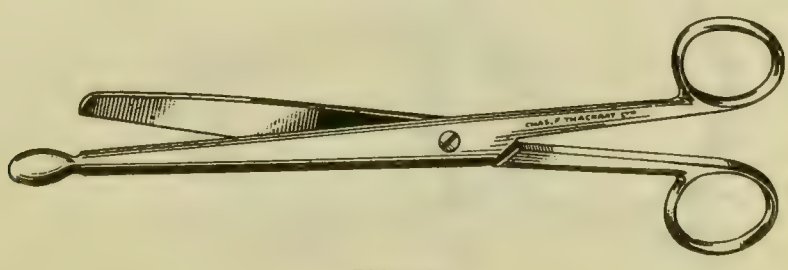
PM4016

PM4016 BLOOD VESSEL SCISSORS, with one blade probe-pointed, 5 in., stainless steel .. .. each



PM4017

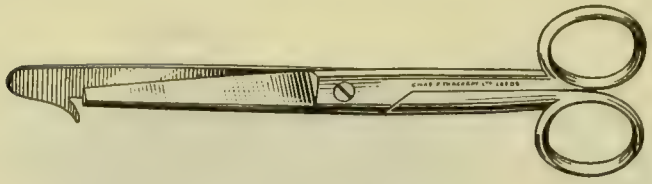
PM4017 INTESTINAL SCISSORS, with one blade ball-pointed, 7½ in., stainless steel, each



PM4018

PM4018 INTESTINAL SCISSORS, "Wolverhampton Model", with one blade olivary-pointed, 9 in., stainless steel .. .. each

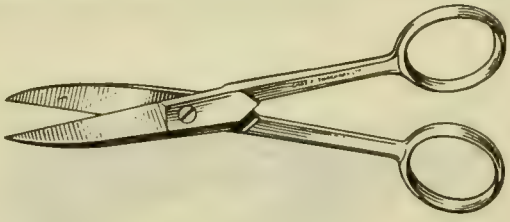
POST MORTEM INSTRUMENTS



PM4019

Cat. No.

PM4019 BOWEL SCISSORS, 7 in., stainless steel .. .. each



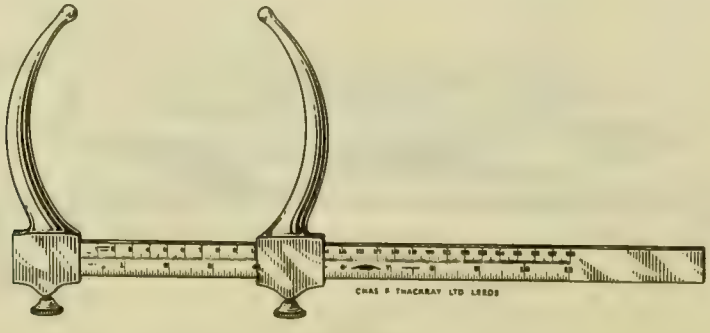
PM4020

PM4020 DISSECTING SCISSORS, strong, open-shanks, 5½ in., stainless steel, each
PM4021 Ditto .. 6¼ in. .. .. each
PM4022 Ditto .. 7 in. .. .. each



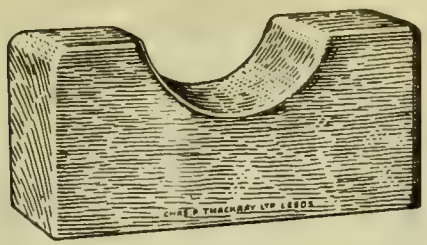
PM4023

PM4023 DISSECTING SCISSORS, narrow pointed blades, open-shanks, 5 in., stainless steel .. .. each
PM4024 Ditto .. 6 in., stainless steel .. .. each



PM4025

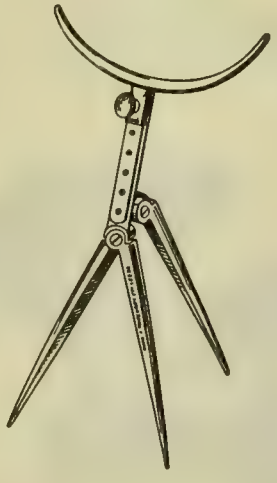
PM4025 CALIPERS, graduated in English and Metric scales, nickel plated .. each



PM4026

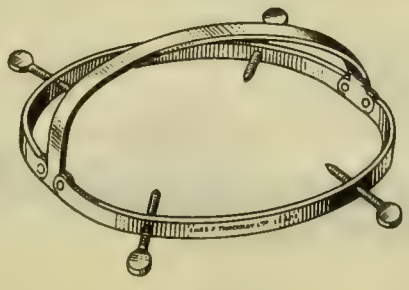
Cat. No.

PM4026 SKULL REST, solid birch wood, size: 13 in. by 6 in. by 2¼ in. .. each



PM4027

PM4027 TRIPOD SKULL REST, stainless steel .. .. each



PM4028

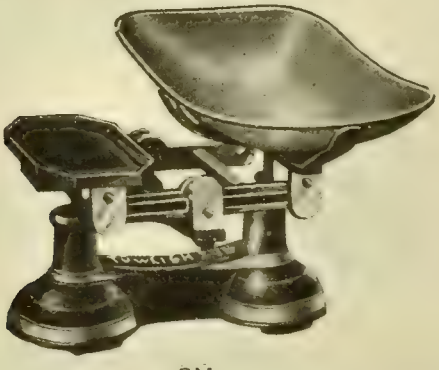
PM4028 LUND'S SKULL CORONET, stainless steel .. .. .. each



PM4029

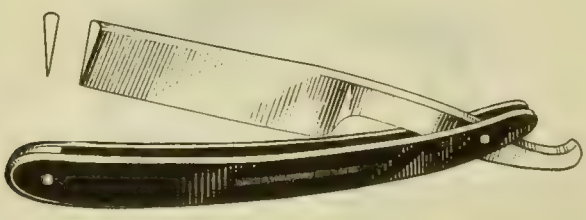
Cat. No.

PM4029 CHAIN HOOKS, nickel plated .. .. set



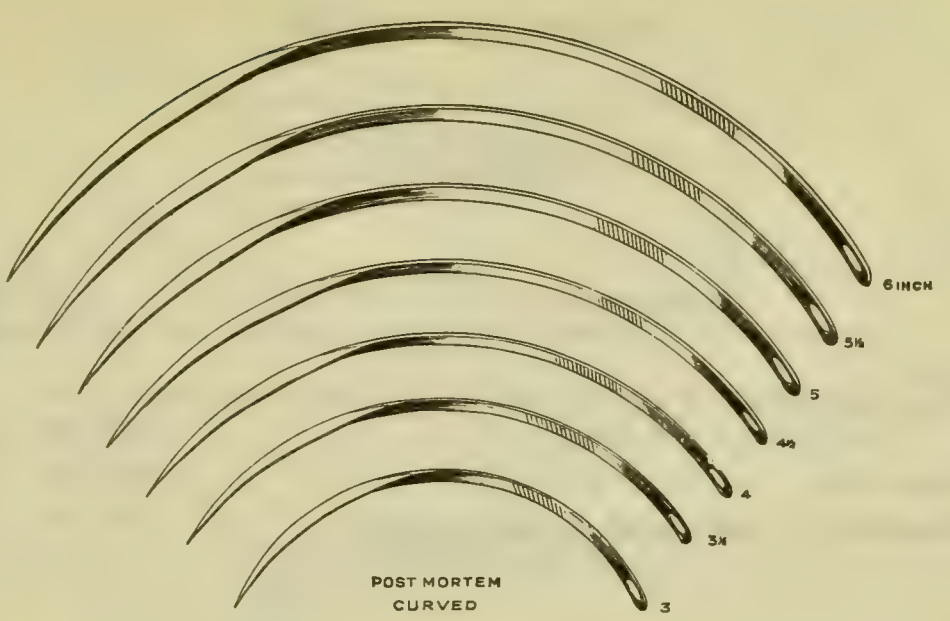
PM4030

PM4030 SCALES, enamelled, with pan, and set of weights to 14 lb. .. .. each



PM4031

PM4031 SECTION RAZOR, hollow ground on one side only, black handle .. each

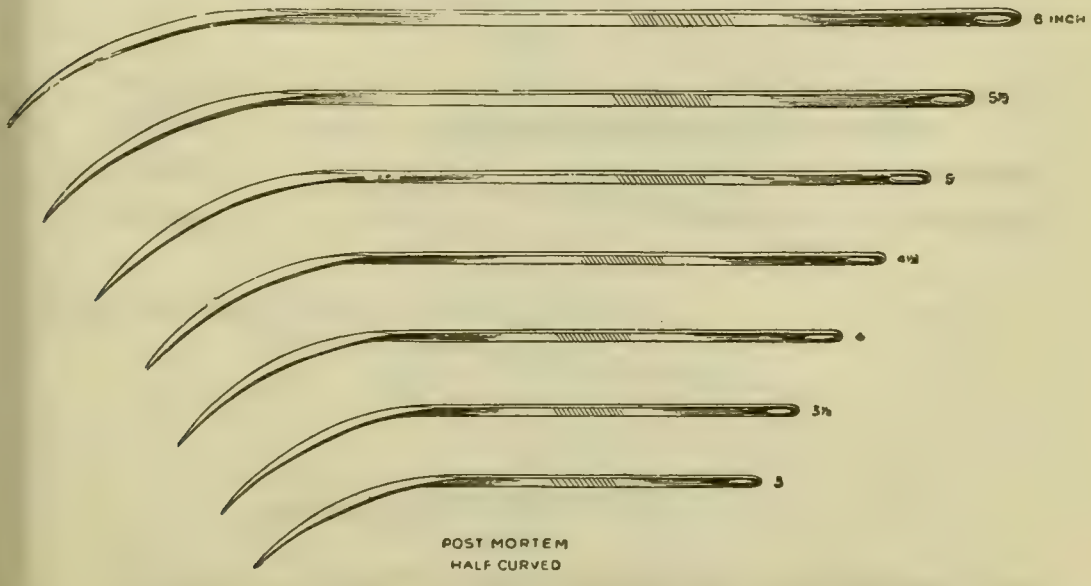


PM4032

Cat. No.

PM4032 SUTURE NEEDLES, curved, seven sizes: 3 in. to 6 in., carbon steel, in packets of six of a size .. .. per pkt.

PM4032A Ditto .. stainless steel, 3 in. to 4 in. .. .. per pkt.



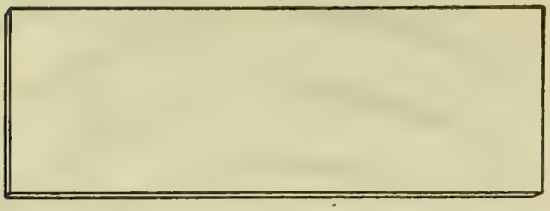
PM4033

PM4033 SUTURE NEEDLES, half-curved, seven sizes: 3 in. to 6 in., carbon steel, in packets of six of a size .. .. per pkt.

PM4033A Ditto .. stainless steel, 3 in. to 4 in. .. .. per pkt.

POST MORTEM INSTRUMENTS

DISSECTION INSTRUMENTS



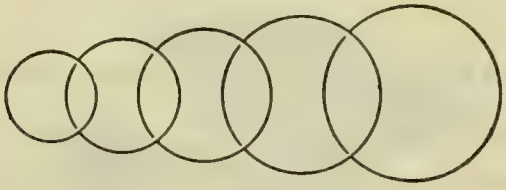
PM4034

Cat. No.

PM4034 MICROSCOPE SLIDES, thin, half-white glass, ground edges, size: 3 in. by 1 in. by 1·2 to 1·5 mm. thickness .. .. per 6 doz.

PM4035 Ditto .. extra thin: 0·8 to 1·0 mm. thickness .. .. per 6 doz.

PM4036 Ditto .. green tinted, 1·2 to 1·5 mm. thickness .. .. per 6 doz.

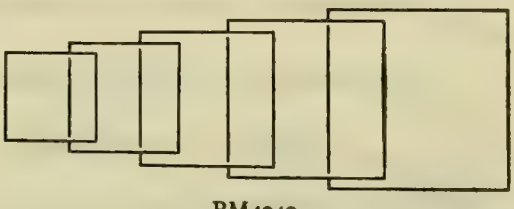


PM4037

PM4037 MICROSCOPE COVER GLASSES, circles, No. 1 extra thin (1/200 in.), five sizes: ½ in., ⅝ in., ¾ in., ⅞ in. and 1 in. diameter .. .. .. per ½ oz.

PM4038 Ditto .. No. 2 (1/150 in.) .. .. per ½ oz.

PM4039 Ditto .. No. 3 (1/100 in.) .. .. per ½ oz.



PM4040

PM4040 MICROSCOPE COVER GLASSES, squares, No. 1 extra thin (1/200 in.), five sizes: ½ in., ⅝ in., ¾ in., ⅞ in. and 1 in. square .. .. .. per ½ oz.

PM4041 Ditto .. No. 2 (1/150 in.) .. .. per ½ oz.

PM4042 Ditto .. No. 3 (1/100 in.) .. .. per ½ oz.



PM4043

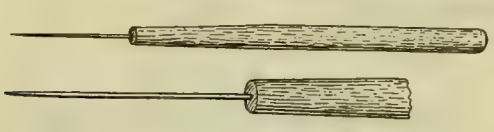
Cat. No.

PM4043 DISSECTING FORCEPS, straight, with fine points, 5 in., nickel plated, each



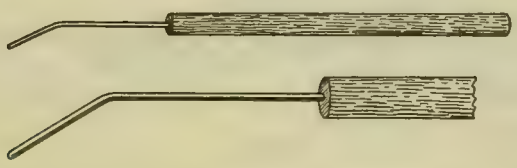
PM4044

PM4044 DISSECTING FORCEPS, curved, with fine points, 5 in., nickel plated, each



PM4045

PM4045 DISSECTING NEEDLE, straight, on wooden handle .. .. each

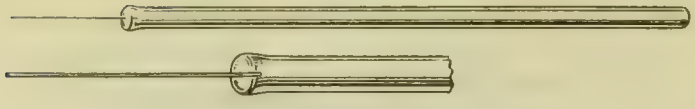


PM4046

PM4046 SEEKER, bent, on wooden handle .. .. each

POST MORTEM INSTRUMENTS

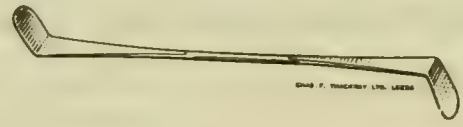
DISSECTION INSTRUMENTS



PM4047

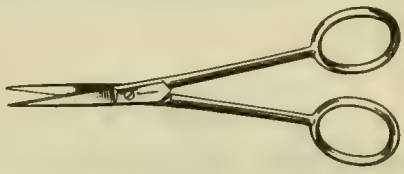
Cat. No.

PM4047 PLATINUM NEEDLE, in glass handle .. .. each



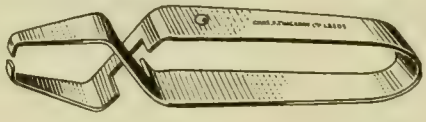
PM4048

PM4048 SECTION LIFTER, aluminium .. .. each



PM4049

PM4049 DISSECTING SCISSORS, straight, fine, 4½ in., nickel plated .. each
PM4049A Ditto .. stainless steel .. .. each
*PM4050 Ditto .. curved-on-flat, nickel plated .. .. each
*PM4050A Ditto .. stainless steel .. .. each



PM4051

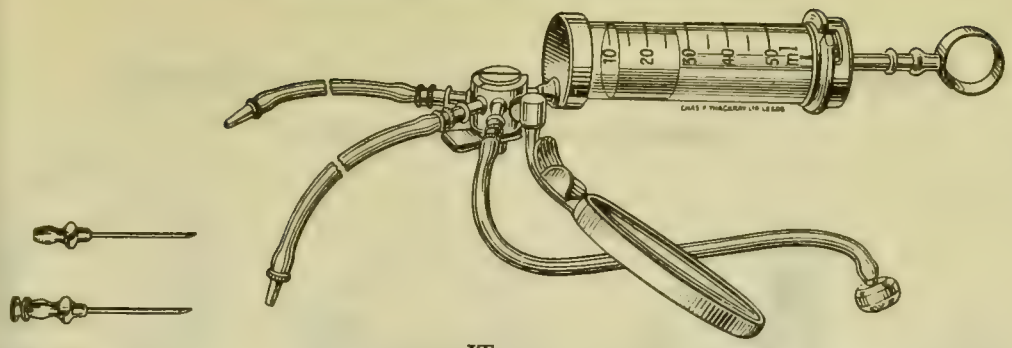
PM4051 CORNET'S SLIDE HOLDING FORCEPS, nickel plated .. .. each

PM4052 DISSECTION SET, consisting of:

Two Needles on wooden handle, fig. PM4045.
One Seeker, bent, on wooden handle, PM4046.
Two Scalpels (one each, small and large), nickel plated, fig. G278.
One Dissecting Forceps, straight, nickel plated, fig. PM4043.
One .. ditto, curved, fig. PM4044.
One Dissecting Scissors, straight, nickel plated, fig. PM4049.
One .. ditto, curved, fig. PM4050.
One Section Lifter, aluminium, fig. PM4048.
One Blood Pipette.

All of the above set in Khaki wrap .. .. .. complete

**Not illustrated*



IT4053

Cat. No.

IT4053 DIRECT-FLOW BLOOD TRANSFUSION SYRINGE, consisting of: 50 ml. syringe, chromium plated three-way connection on handle, three lengths of rubber tubing, metal mounts and sinker, one of each donor and recipient needles, S.I.M.A. serum fitting, in †nickel plated case .. .. complete

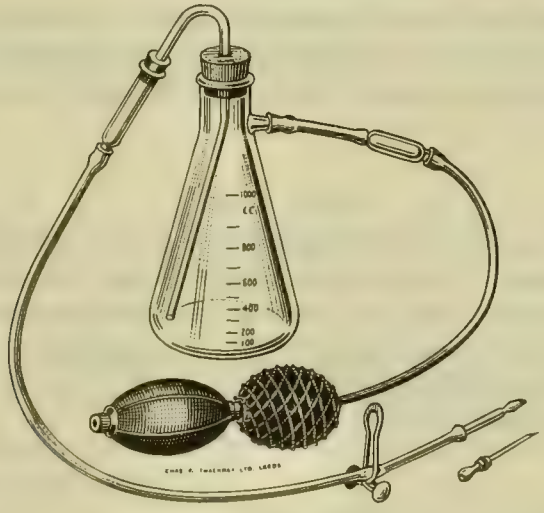
IT4053A Ditto .. 20 ml. .. .. complete

IT4054 Spare Needles, Donor, stainless steel, 1¾ in. by 14 B.W.G., with keyed stilette, S.I.M.A. fitting .. .. each

IT4055 Spare Needles, Recipient, stainless steel, 1¾ in. by 18 B.W.G., S.I.M.A. serum fitting, each

Rotanda Syringe: page L423

†*Not chromium, as stated on page* L421



IT4056

IT4056 KEYNES' BLOOD TRANSFUSION APPARATUS, consisting of: 1,000 c.c. graduated flask, glass centre piece, glass filter, glass cannula, French's Needle (large size) in glass tube, rubber tubing, rubber bellows and Mohr's tubing clip, complete

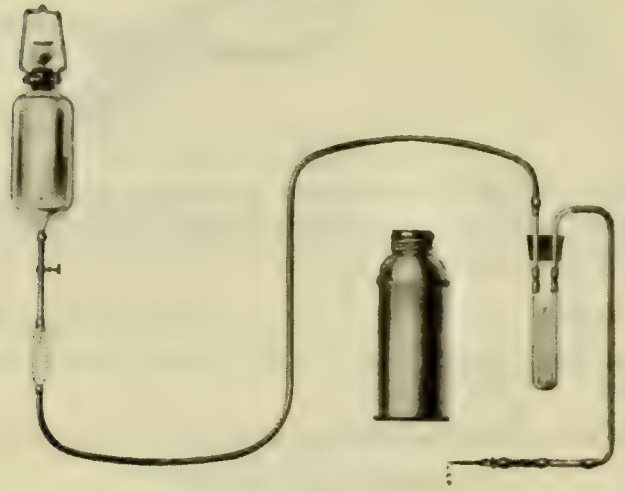
IT4057 Spare Flasks .. .. each

Other spare parts available on request.

NOTE.—B.W.G.=British Wire Gauge.

IMPROVED CONTINUOUS INTRAVENOUS INFUSION APPARATUS

Designed by Mr. E. L. Farquharson, F.R.C.S.



IT4058

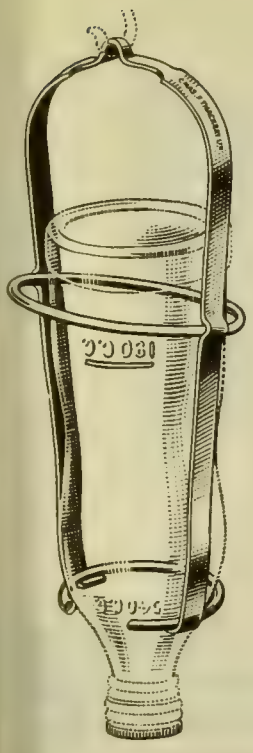
This improved Intravenous Saline Infusion apparatus consists of a sterilizable graduated flask, 20 oz. capacity, which acts as the reservoir, 1-pint vacuum flask, filter funnel, tubing clip, drop regulator, glass U-tube, glass connection, two glass cannulæ. Record fitting Weintraud's stainless steel needle, rubber tubing, etc.

METHOD OF USE:

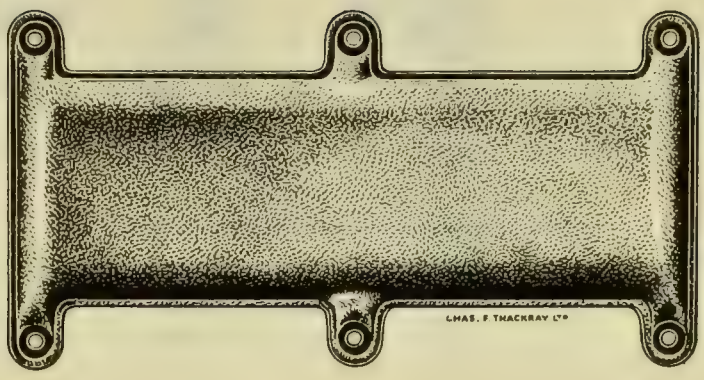
The entire apparatus, with the exception of the vacuum flask, is first sterilized by boiling and the reservoir filled with cold saline solution. The saline passes through the glass drop regulator, the rate of flow being regulated by means of the tubing clip. The cold saline then passes through the U-tube which is immersed in hot water in the vacuum flask and is heated to the approximate body temperature.
The rate of flow usually advised is 30–40 drops per minute.
The vacuum flask should be filled with *boiling* water every two hours.

Cat. No.		
IT4058	APPARATUS as above, in small card case	complete
IT4058A	Attache Case for above	each
IT4059	Spare Flasks, glass	each
IT4060	Spare Flasks, vacuum	each
IT4061	Spare Needles, Weintraud's (fig. IT4114)	each

Other spare parts available on request.



IT4062A



IT4062B

Cat. No.

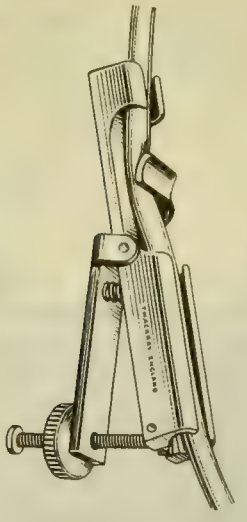
IT4062A THE "BRISTOL" TRANSFUSIÓN CRADLE, Improved Model, to take Standard M.R.C. Transfusion Bottle, chromium plated, satin finish .. each

Specially designed to make transfusion-bottle changing an easy task. Vide "The Lancet," January 4th, 1958, page 31.

†IT4062B ARM SPLINT, plastic-covered, size 12 in. by 4 in. with six flexible eyelets for tape .. .. each

†IT4062C Ditto .. size 18 in. by 4 in. .. .. each

†Extremely useful in both Wards and Operating Theatres for Intravenous Therapy; always ready for use, internally cushioned and washable.

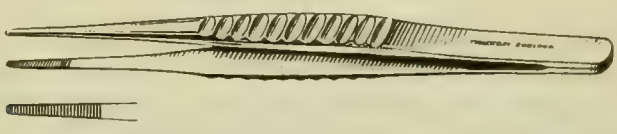


PATENT
PENDING

742–6484

Cat. No.

742–6484 A–C–T TRANSFUSION REGULATOR, anodised aluminium with chromium plated stee lever and nylon adjusting screw, approx. 3 in. long and weighing only 1 oz. The nylon adjustin screw is easily operated by one hand in either direction and allows the flow rate to be set an maintained as low as one drop per minute with complete accuracy. The regulator will tak rubber or plastic tubing up to $\frac{3}{8}$ in. outside diameter and the construction is such that th tubing is held firmly above and below the actual clamp, preventing kinking and therefor accidental alteration of the flow rate.



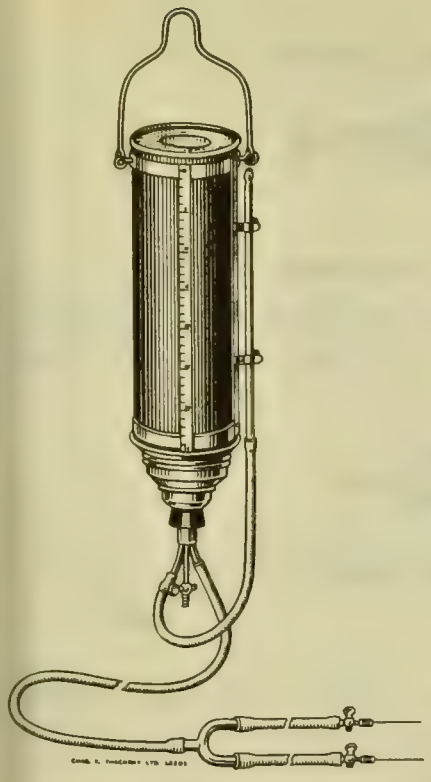
742–3427A

742–3427A INTRAVENOUS DISSECTING FORCEPS, fine serrated jaws, 5 in., stainless steel.

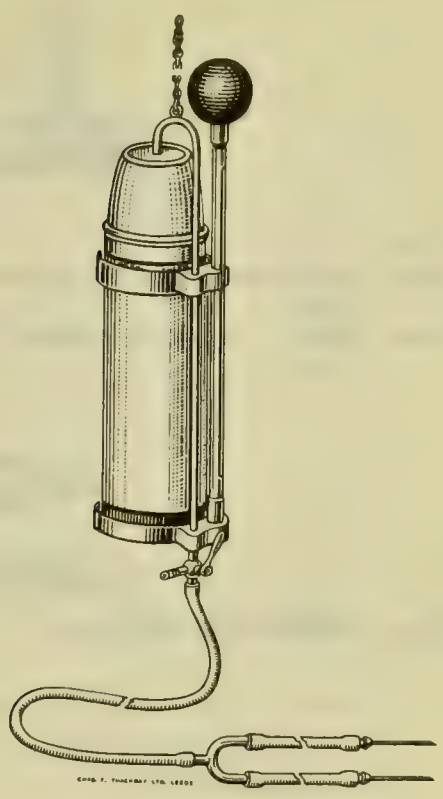


742–3428A

742–3428A INTRAVENOUS DISSECTING FORCEPS, with fine one into two teeth on smooth jaw 5 in., stainless steel.



IT4067



IT4071

Cat. No.

IT4067 CARRUTHERS' SALINE INFUSION APPARATUS, consisting of: two-pint vacuum flask with rubber bung and metal mount, nickel plated and graduated frame, rubber tubing, glass Y-connection, two nickel plated stopcocks and two stainless steel needles (1⅝ in. long by 21 B.W.G.) .. .. complete

IT4068 Ditto .. but with the addition of a drop regulator and rubber rectal tube for administration per rectum .. .. complete

IT4069 Spare Vacuum Flasks, two-pint .. .. each

IT4070 Spare Needles .. .. each

Other spare parts available on request.

IT4071 SOUTTAR'S SALINE INFUSION APPARATUS, consisting of: two-pint vacuum flask with rubber bung, nickel plated frame with chain, rubber tubing, glass Y-connection and two Souttar's stainless steel needles (2½ in. long by 14 B.W.G.) .. .. complete

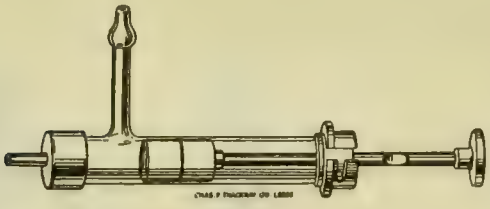
IT4072 Ditto .. but with the addition of a drop regulator and rubber rectal tube for administration per rectum .. .. complete

IT4073 Spare Vacuum Flasks, two-pint .. .. each

IT4074 Spare Needles .. .. each

Other spare parts available on request.

NOTE.—B.W.G.=British Wire Gauge.



IT4075

Cat. No.

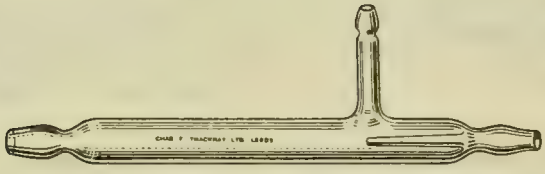
IT4075 KAUFMAN'S SYRINGE, for blood transfusion, glass and metal, 2 c.c., †Record fitting .. .. each

IT4076 Ditto .. all-glass, Luer fitting .. .. each



IT4077

IT4077 LAURIE'S DROPPER, glass .. .. each



IT4078

IT4078 LAURIE'S DROPPER, with side-branch, glass .. .. .. each

*IT4078A MACINTOSH AND PASK'S DROPPER, with safety float .. .. each

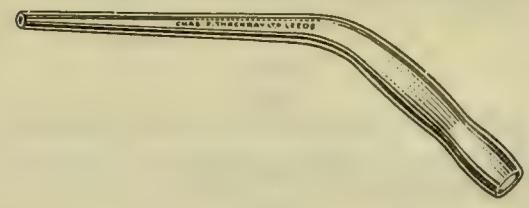


IT4079

IT4079 CANNY RYALL'S DROPPER, glass barrel, chromium plated mounts and regulating tap .. .. each

† *Luer fitting can be supplied on request.*

**Not illustrated*



IT4080

Cat. No.

IT4080 HORROCKS' INTRAVENOUS CANNULA, glass .. .. each

IT4081 Ditto .. silver plated .. .. each



IT4082

IT4082 KEYNE'S INTRAVENOUS CANNULA, glass .. .. .. each



IT4083

IT4083 SIGGAR'S INTRAVENOUS CANNULA, glass .. .. .. each

*IT4084 "CUTTING DOWN" SET, consisting of:

One B.P. Type Handle and six Scalpel Blades, No. 10 (fig. G272–3).
Two "Mosquito" Artery Forceps, screw joint, 5 in., stainless steel (fig. G405)
One Fine Dissecting Forceps, non-toothed, stainless steel (fig. O3427A).
One .. ditto, ½ teeth (fig. O3428A).
One Fine Scissors, sharp pointed, stainless steel (fig. O3458).
One Small Aneurysm Needle, stainless steel (fig. G629).
Set of above instruments .. .. complete

IT4085 Khaki Wrap for above .. .. each

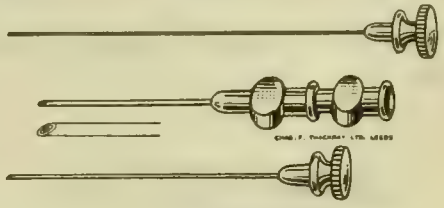
**Not illustrated*



IT4086

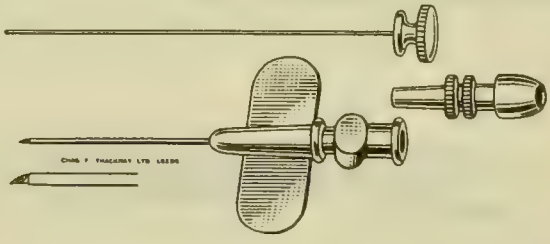
Cat. No.

IT4086 HAMILTON BAILEY'S INTRAVENOUS CANNULA, gilt, adults' size, Record or Luer fitting .. .. each
IT4087 Ditto .. children's size, Record or Luer fitting .. .. .. each
IT4088 Ditto .. infants' size, Record or Luer fitting .. .. .. each



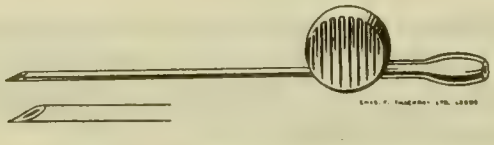
IT4089

IT4089 BATEMAN'S INTRAVENOUS NEEDLE, consisting of: stainless steel outer needle 1 in. by 18 B.W.G. with stilette, and stainless steel inner needle with stilette, †Record fitting .: .. .. each
IT4090 Ditto .. outer needle 1 in. by 19 B.W.G. .. .. .. each



IT4091

IT4091 "BIRMINGHAM DOUBLE" INTRAVENOUS NEEDLE, consisting of: stainless steel cannula 1 in. by 19 B.W.G. on winged mount, stainless steel inner needle, stilette and tubing connection, †Record fitting .. .. .. each



IT4092

IT4092 DEAN'S INTRAVENOUS NEEDLE, stainless steel, 1⅛ in. by 18 B.W.G. on serrated mount .. .. each

†Luer fitting can be supplied on request.
NOTE.—B.W.G.=British Wire Gauge.



IT4093

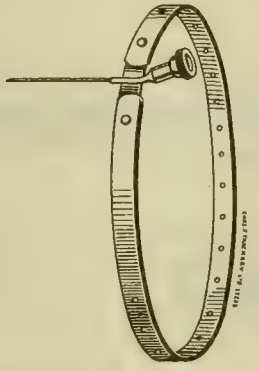
Cat. No.

IT4093 FRANKIS EVANS' INTRAVENOUS NEEDLE, consisting of: stainless steel cannula 1½ in. by 16 B.W.G. on serrated mount, and stainless steel inner needle on serrated mount, †Record fitting .. .. each

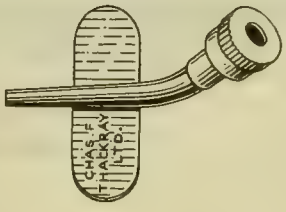


IT4094

IT4094 FRENCH'S INTRAVENOUS NEEDLE, stainless steel, small size, 1¼ in. tapering: 9 B.W.G. to 13 B.W.G., complete in glass tube .. .. each
IT4095 Ditto .. large size, 1⅞ in. tapering: 8 B.W.G. to 12 B.W.G. .. each



IT4096



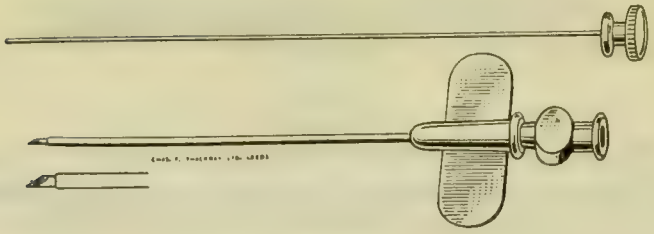
IT4099

IT4096 GORDH'S INTRAVENOUS NEEDLE, for repeated injections of anæsthetic drugs, stainless steel shaft: 20 B.W.G. by 1⅛ in. long, winged mount fitted with rubber diaphragm, and rubber armband. Record or Luer fitting .. each
IT4097 Spare Rubber Armbands .. .. each
IT4098 Spare Rubber Diaphragms for IT4096, IT4099, IT4109 and IT4111 .. dozen
IT4099 FORRESTER'S ADAPTOR, consisting of: modified Gordh's wing-plate and diaphragm with Record fitting mount. Record or Luer fitting .. each

This adaptor allows a needle size of choice to be used, especially the smaller sizes for children; the winged mount is secured by adhesive tape. If remote control is desired, the adaptor can be used with the appropriate mounts, needle and length of Polythene tubing. Vide "B.M.J.", June 11th, 1949, page 1007.

†Luer fitting can be supplied on request.

NOTE.—B.W.G.=British Wire Gauge.

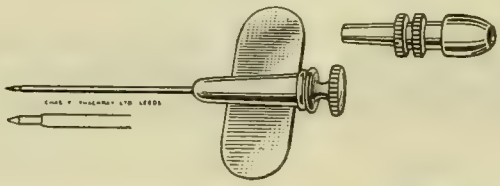


IT4100

Cat. No.

IT4100 GUEST'S INTRAVENOUS NEEDLE, consisting of: stainless steel cannula 2 in. by 17 B.W.G. on winged mount, stainless steel inner needle and stilette, †Record fitting .. .. each

IT4101 Ditto .. cannula 2 in. by 18 B.W.G. .. .. each



IT4102

IT4102 KEITH'S INTRAVENOUS NEEDLE, as used at the Birmingham Children's Hospital, consisting of: stainless steel cannula 1 in. by 19 B.W.G. on winged mount, stainless steel sharp pilot and tubing connection, †Record fitting .. each



IT4103

IT4103 M.R.C. PATTERN INTRAVENOUS NEEDLE, stainless steel, 1⅜ in. by 17 B.W.G., †Record fitting (Recipient) .. .. each

IT4104 Ditto .. 1⅜ in. by 13 B.W.G. (Donor) .. .. each



IT4105

IT4105 M.R.C. PATTERN INTRAVENOUS CANNULA, with "stop" for tying in vein, stainless steel, 1⅜ in. by 15 B.W.G., †Record fitting .. .. each

†Luer fitting can be supplied on request.

NOTE.—B.W.G.=British Wire Gauge.



IT4106

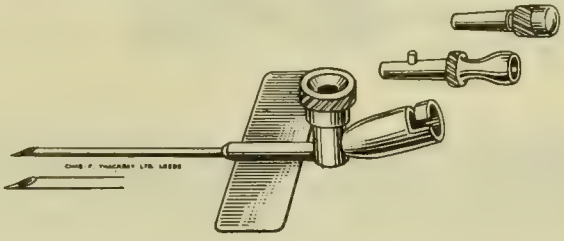
Cat. No.

IT4106 MILLAR'S INTRAVENOUS NEEDLE, consisting of: stainless steel needle 2 in. by 20 B.W.G., length of plastic tubing with mount and three-way tap, complete

IT4107 Spare Needles (now without finger-grip) .. .. each

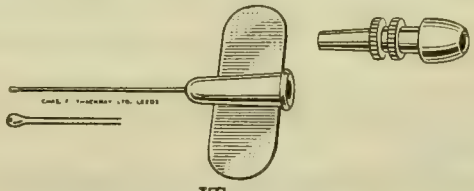
IT4108 Spare Plastic Tubing .. .. per yard

As described by A. Meredith Millar, in the "Journal of Anæsthesia", Vol. VII, 1952.



IT4109

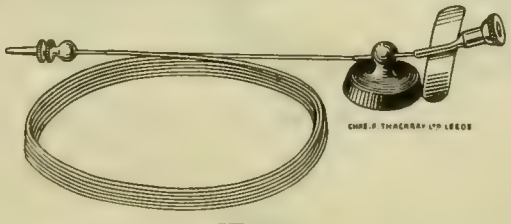
IT4109 OLOVSON-HEYMANN'S INTRAVENOUS NEEDLE, consisting of: stainless steel needle 1¼ in. by 18 B.W.G., on winged mount with Gordh's type diaphragm and a bayonet fitting tubing mount and plug .. .. .. each



IT4110

IT4110 ROWORTH'S INTRAVENOUS CANNULA, for Infants, 1 in. by 23 B.W.G., stainless steel, on winged mount, with tubing connection, †Record fitting, each

IT4110A Ditto .. 16, 17 and 19 B.W.G. .. .. each



IT4111

IT4111 SCURR'S INTRAVENOUS OUTFIT, for remote control, consisting of: Gordh's type mount fitted to rubber sucker, length of Polythene tubing and Record fitting needle mount .. .. each

†Luer fitting can be supplied on request.

NOTE.—B.W.G.=British Wire Gauge.

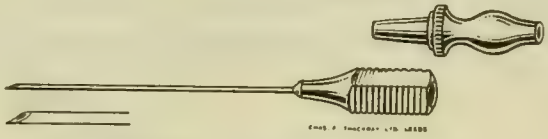


IT4112

Cat. No.

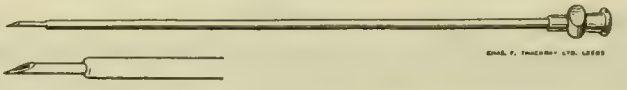
IT4112 WEST MIDDLESEX HOSPITAL PATTERN INTRAVENOUS NEEDLE, consisting of: stainless steel cannula 1⅛ in. by 18 B.W.G. on serrated mount, and stainless steel inner trocar on serrated mount, †Record fitting .. each

IT4113 Ditto .. cannula 1⅛ in. by 19 B.W.G. .. .. each



IT4114

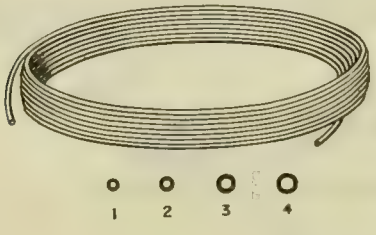
IT4114 WEINTRAUD'S INTRAVENOUS NEEDLE, stainless steel, 1⅛ in. by 18 B.W.G. on serrated mount with tubing connection, †Record fitting .. each



IT4115

IT4115 HAXTON'S NEEDLE, for intra-aortic blood transfusion, stainless steel shaft 14·5 cm. long, 2·8 mm. diameter with a stepped end 1 cm. long, 1·5 mm. diameter, †Record fitting mount .. .. each

Vide "The Lancet", March 28th, 1953, pages 622–4.



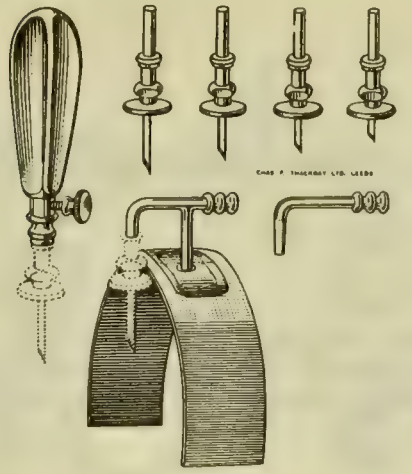
No.	Bore mm.	Wall mm.
1	0·5	0·25
2	1·0	0·25
3	1·5	0·5
4	2·0	0·5

IT4116

IT4116 POLYTHENE TUBING, four sizes: 1, 2, 3 and 4, supplied in coils of 5 yards, per 5 yards

†Luer fitting can be supplied on request.

NOTE.—B.W.G.=British Wire Gauge.



IT4117

Cat. No.

IT4117 GIMSON'S BONE MARROW SET, for infusion and transfusion, consisting of: chromium plated handle, four stainless steel needles with chromium plated mounts (one each four sizes: $\frac{5}{8}$ in. long by 16 B.W.G., $\frac{1}{2}$ in. long by 16 B.W.G., $\frac{3}{8}$ in. long by 18 B.W.G. and $\frac{1}{4}$ in. long by 18 B.W.G.). With two chromium plated angled adaptors: one with metal plate sewn to rubber strap and one without plate or strap .. .. complete

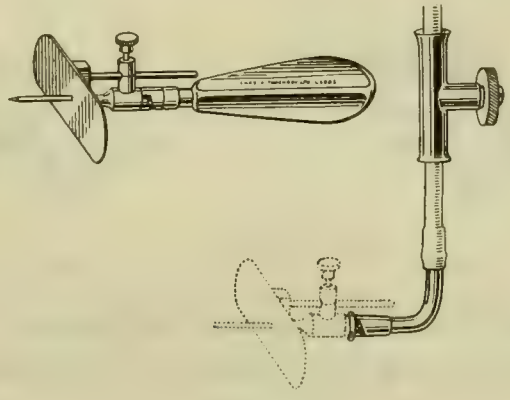
Vide "B.M.J.", June 3rd, 1944, page 748.

IT4118 Handle only .. .. each

IT4119 Needles only, with mounts, four sizes .. .. each

IT4120 Angled Adaptor only, with plate sewn to rubber strap .. .. each

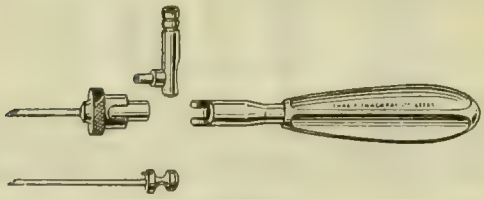
IT4121 Angled Adaptor only, without plate or strap .. .. .. each



IT4122

IT4122 BEHR'S INTRATIBIAL OUTFIT, for infusion and transfusion, consisting of: chromium plated handle fitted with stainless steel trocar, stainless steel cannula ($\frac{7}{8}$ in. long by 14 B.W.G.) with chromium plated depth-shield and drip regulator, complete

NOTE.—B.W.G.=British Wire Gauge.



IT4123

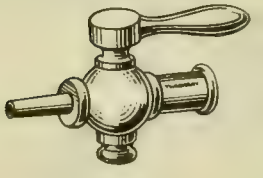
Cat. No.

IT4123 OXFORD PATTERN STERNAL NEEDLE, for infusion and transfusion, consisting of: chromium plated handle, stainless steel needle $\frac{7}{8}$ in. long by 13 B.W.G., with Record fitting mount, stilette and angled tubing connection .. each

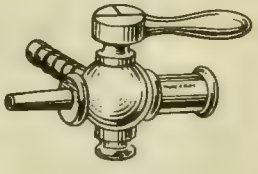


IT4124

IT4124 SALAH'S STERNAL NEEDLE, for infusion and transfusion, stainless steel shaft $1\frac{5}{8}$ in. long by 15 B.W.G., with depth-guard. †Record fitting .. each



IT4125



IT4126

IT4125 HARRISON'S STOPCOCK. †Record fitting, chromium plated .. each

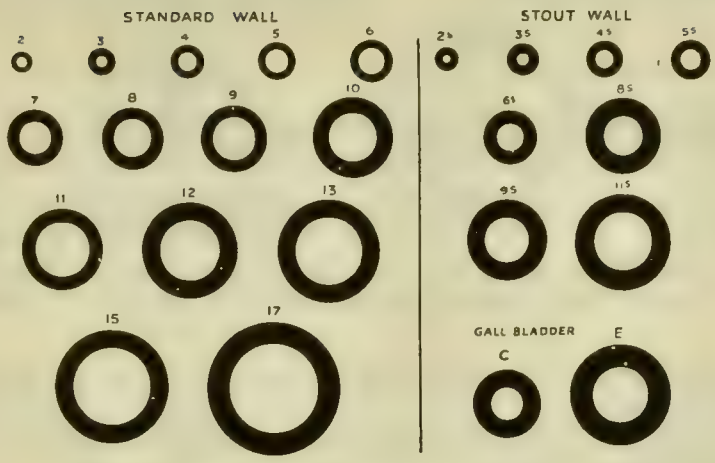
IT4126 STOPCOCK, two-way, with side branch for tubing. †Record fitting, chromium plated .. .. each

*IT4126A Ditto .. two-way, with side branch for tubing, Luer-Lock fitting .. each

†Luer fitting can be supplied on request.

**Not illustrated*

NOTE.—B.W.G. = British Wire Gauge.



S4127

Cat. No.

S4127 DRAINAGE TUBING, red rubber, as per tables below and illustrations above, each

*S4128 MOYNIHAN'S TUBING, red rubber, thin-walled, for gall-bladder, $^{11}/_{16}$ in. bore, $^{1}/_{16}$ in. wall .. .. per yard

STANDARD WALL

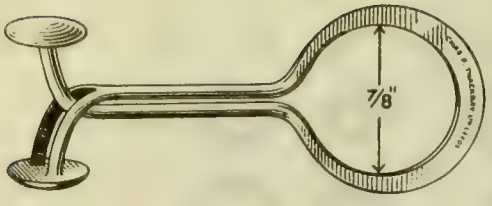
	Bore in.	Wall in.	Per yd.		Bore in.	Wall in.	Per yd.
2	$^{1}/_{20}$	$^{1}/_{40}$		9	$^{1}/_{4}$	$^{1}/_{16}$	
3	$^{1}/_{16}$	$^{1}/_{30}$		10	$^{9}/_{32}$	$^{1}/_{12}$	
4	$^{1}/_{10}$	$^{1}/_{30}$		11	$^{5}/_{16}$	$^{1}/_{16}$	
5	$^{1}/_{8}$	$^{1}/_{30}$		12	$^{11}/_{32}$	$^{1}/_{10}$	
6	$^{5}/_{32}$	$^{1}/_{24}$		13	$^{3}/_{8}$	$^{1}/_{10}$	
7	$^{3}/_{16}$	$^{1}/_{16}$		15	$^{7}/_{16}$	$^{1}/_{10}$	
8	$^{7}/_{32}$	$^{1}/_{16}$		17	$^{1}/_{2}$	$^{1}/_{8}$	

STOUT WALL

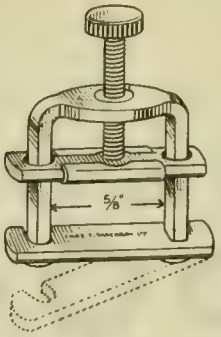
	Bore in.	Wall in.	Per yd.		Bore in.	Wall in.	Per yd.
S2	$^{1}/_{20}$	$^{1}/_{30}$		S6	$^{5}/_{32}$	$^{1}/_{16}$	
S3	$^{1}/_{16}$	$^{1}/_{24}$		S8	$^{7}/_{32}$	$^{1}/_{10}$	
S4	$^{1}/_{10}$	$^{1}/_{24}$		S9	$^{1}/_{4}$	$^{1}/_{10}$	
S5	$^{1}/_{8}$	$^{1}/_{24}$		S11	$^{5}/_{16}$	$^{1}/_{10}$	
C	$^{3}/_{16}$	$^{3}/_{32}$	GALL BLADDER				
E	$^{5}/_{16}$	$^{1}/_{8}$					

**Not illustrated*

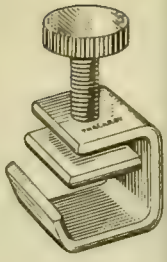
SURGICAL INSTRUMENTS



S4129



S4130



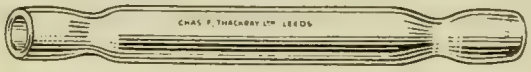
S4130A

Cat. No.

S4129 MOHR'S TUBING CLIP, nickel plated, four sizes: $\frac{3}{4}$ in., $\frac{7}{8}$ in., 1 in. and $1\frac{1}{8}$ in. diameter of ring .. .. each

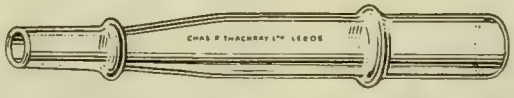
S4130 GATE PATTERN TUBING CLIP, nickel plated, three sizes: $\frac{5}{8}$ in., $\frac{3}{4}$ in. and 1 in. diameter .. .. each

S4130A OPEN PATTERN TUBING CLIP, nickel plated, standard size .. each



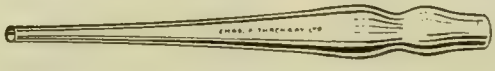
S4131

S4131 GLASS CONNECTIONS, straight, Nos. 1–4: $\frac{1}{4}$ in., $\frac{3}{8}$ in., $\frac{7}{16}$ in. and $\frac{1}{2}$ in. external diameter .. .. each



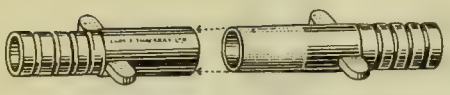
S4132

S4132 GLASS CONNECTIONS, tapered, Nos. 1–4: $\frac{5}{16}$ in. to $\frac{1}{2}$ in., $\frac{1}{4}$ in. to $\frac{7}{16}$ in., $\frac{3}{16}$ in. to $\frac{3}{8}$ in. and $\frac{1}{8}$ in. to $\frac{1}{4}$ in. external diameter .. .. .. each



S4133

S4133 GLASS CONNECTIONS, tapered cannulæ, Nos. 1–6: $\frac{3}{32}$ in., $\frac{1}{8}$ in., $\frac{5}{32}$ in., $\frac{3}{16}$ in., $\frac{7}{32}$ in. and $\frac{1}{4}$ in. external diameter (at distal end) .. .. .. each



S4134



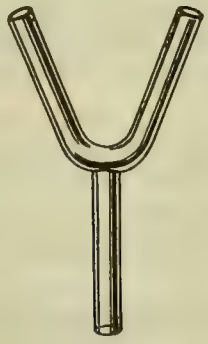
S4134A

Cat. No.

†S4134 HAMILTON STEWART'S TUBING CONNECTION, consisting of one each male and female winged mounts, diameter of tubing ends: $\frac{1}{2}$ in., chromium plated, complete

†S4134A Ditto .. WIGGINS-DAVIES' modification, with knurled grip, diameter of tubing ends: $\frac{5}{16}$ in., chromium plated .. .. complete

†*These connections are used in urology as a quick-action method of joining tubes, for irrigation, etc. They are also useful in the tubing assembly of Suction Apparatus.*



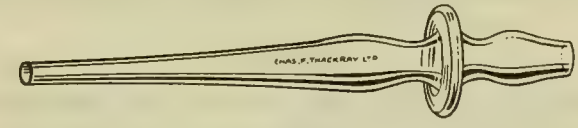
S4135



S4136

S4135 GLASS CONNECTIONS, Y-shaped, Nos. 1–5: $\frac{3}{16}$ in., $\frac{1}{4}$ in., $\frac{5}{16}$ in., $\frac{3}{8}$ in. and $\frac{7}{16}$ in. external diameter .. .. each

S4136 GLASS CONNECTIONS, T-shaped, Nos. 1–5: $\frac{3}{16}$ in., $\frac{1}{4}$ in., $\frac{5}{16}$ in., $\frac{3}{8}$ in. and $\frac{7}{16}$ in. external diameter .. .. each



S4137

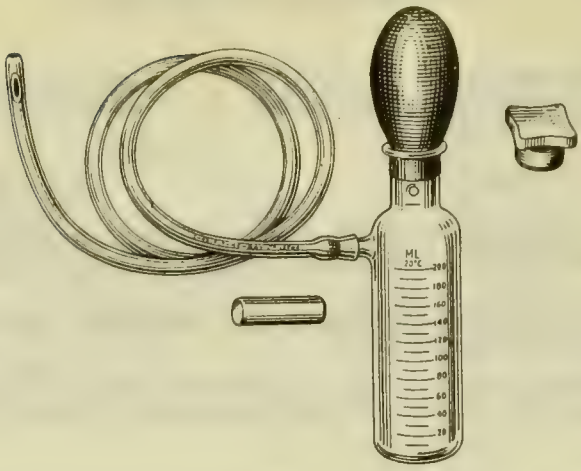
S4137 WOUND NOZZLE, glass .. .. each



S4138

S4138 RECTAL NOZZLE, glass .. .. each

SURGICAL SUNDRIES



S4139

Cat. No.

S4139 SENORAN'S STOMACH ASPIRATOR, consisting of 200 ml. graduated glass bottle fitted with rubber bulb and band, stomach tube (42 in. long by 19 English Catheter Gauge), rubber bung and rubber cap .. .. complete

The bottle, fitted with stomach tube and rubber bulb, is ready for aspiration. When aspiration is completed the side-branch is occluded with the rubber cap, the rubber band slipped over the hole in the neck of the bottle and the neck sealed with the rubber bung.

S4140 Spare Bottles .. .. each

S4141 Spare Stomach Tubes .. .. each

Spare Rubber Bulbs, Bungs, Caps and Bands also available.



S4142

S4142 HURST'S ŒSOPHAGEAL BOUGIE, rubber, filled with mercury, 30 in. long, sizes: 18, 20, 22, 24, 26, 28, 30, 32 and 34 English Catheter Gauge, each



S4143

S4143 ŒSOPHAGEAL or STOMACH TUBE, 30 in. to 42 in., rubber, with two side eyes, sizes: 7 to 36 English Catheter Gauge .. .. each

S4143A Ditto .. plastic, clear and orange X-ray opaque, 30 in., sizes: 6 to 30 French Catheter Gauge, even sizes only. Unsterile .. .. each

S4143B Ditto .. clear plastic, 30 in., sizes: 4 to 20 English Catheter Gauge. Sterile dozen



S4144

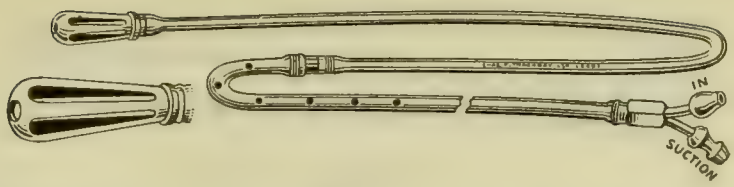
S4144 FLATUS OR RECTAL TUBE, rubber, with terminal hole, 15 in. long, sizes: 3 to 28 English Catheter Gauge .. .. each

S4145 Ditto .. 30 in. long, sizes: 8 to 36 English Catheter Gauge .. .. each

S4145A Ditto .. plastic, clear and orange X-ray opaque, 30 in., sizes: 6 to 30 French Catheter Gauge, even sizes only. Unsterile .. .. each

S4145B Ditto .. clear plastic, 30 in., sizes: 4 to 20 English Catheter Gauge. Sterile dozen

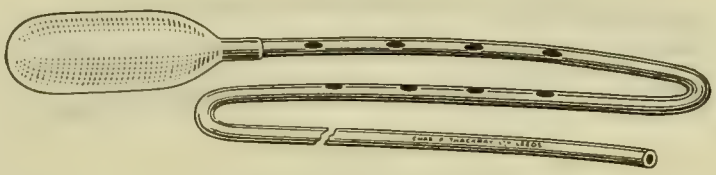
Catheter Gauges: page U194.



S4146

Cat. No.

S4146 ABBOTT-RAWSON'S TUBE, bi-lumen, gastro-enterostomy, rubber, with fenestrated pear-shaped metal tip, six side holes and a metal mount, 50 in. long, 16 French Catheter Gauge .. .. each



S4147

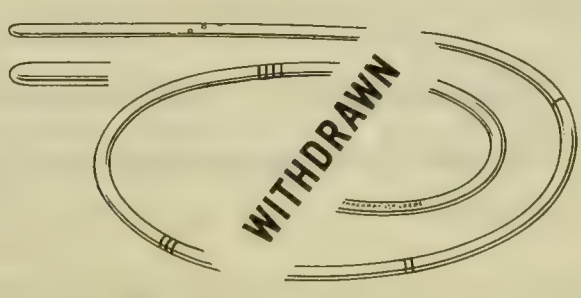
S4147 CANTOR'S TUBE, single lumen, intestinal intubation, rubber, opaque to X-ray, with balloon at tip for mercury (not supplied) and eight side holes, 120 in. long, 18 French Catheter Gauge .. .. each



S4148

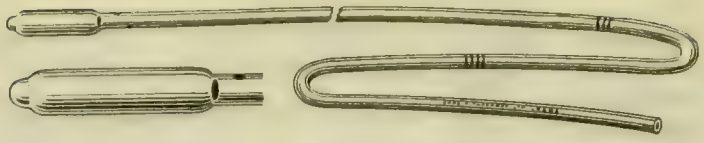
S4148 EINHORN'S TUBE, fractional gastric analysis, rubber, with perforated metal tip, 30 in. long, sizes: 6, 8 and 10 English Catheter Gauge .. .. each

S4149 Ditto .. 42 in. long, for duodenum .. .. each



S4150

S4150 FRANKIS EVANS' TUBE, intestinal, plastic, with four side holes, 42 in. long, 6 English Catheter Gauge .. .. each



S4151

Cat. No.

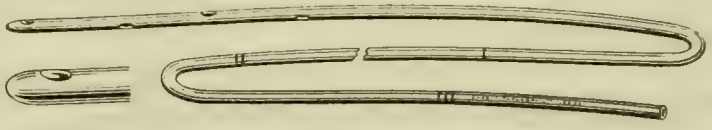
S4151 JAMES' TUBE, intestinal, rubber with concealed magnetic metal tip and three side holes, for adults: 42 in. long, 8 English Catheter Gauge .. .. each
S4152 Ditto .. for children: 30 in. long, 6 English Catheter Gauge .. each
S4153 Ditto .. for infants: 30 in. long, 6 English Catheter Gauge .. each

Children's and Infants' sizes vary only in length of magnet.



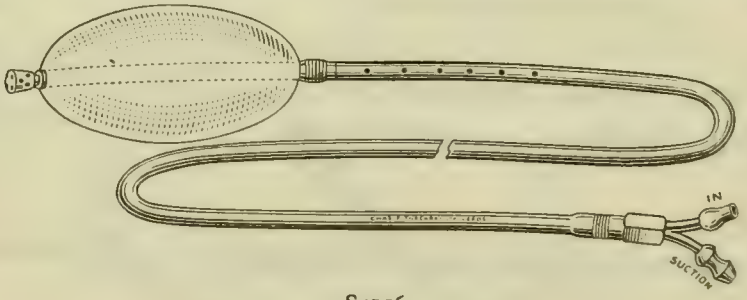
S4154

S4154 JUTTE'S TUBE, gastro-duodenal lavage, rubber, with metal tip, 30 in. long, 6 English Catheter Gauge .. .. each



S4155

†S4155 LEVIN'S TUBE, gastro-duodenal lavage, for nasal route, rubber, with four side eyes, 30 in. long, sizes: 12, 14 and 16 French Catheter Gauge .. .. each
†S4155A Ditto .. 42 in. long .. .. each
S4155B Ditto .. plastic, clear and orange X-ray opaque, 42 in. long, sizes: 6 to 24 French Catheter Gauge, even sizes only. Unsterile .. .. .. each
S4155C Ditto .. clear plastic, 42 in. long, sizes: 4 to 10 English Catheter Gauge. Sterile dozen



S4156

S4156 MILLER-ABBOTT'S TUBE, bi-lumen, intestinal intubation, rubber, with inflating balloon at tip, six side holes and a metal mount, 123 in. long, 16 French Catheter Gauge .. .. each
S4157 Spare Inflating Balloons for above .. .. each

†*Can be supplied Opaque to X-rays if required, extra.*



S4158

Cat. No.

S4158 REHFUSS' TUBE, fractional gastric analysis, rubber, with fenestrated metal tip, 30 in. long, sizes: 6, 8 and 10 English Catheter Gauge .. .. each

S4159 Ditto .. 42 in. long, for duodenum .. .. each



S4160

†S4160 RYLE'S TUBE, fractional gastric analysis, rubber, with concealed metal tip and four side holes, 30 in. long, sizes: 4, 6, 8 and 10 English Catheter Gauge, each

†S4161 Ditto .. 36 in. and 42 in. long for duodenum .. .. .. each

S4161A Ditto .. plastic, clear and orange X-ray opaque, 42 in. long, sizes: 6 to 20 French Catheter Gauge. Unsterile .. .. each

S4161B Ditto .. clear plastic, 42 ins. long, sizes: 4 to 10 English Catheter Gauge. Sterile .. .. dozen



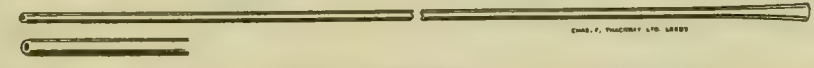
S4162

S4162 WANGENSTEEN'S TUBE, intestinal, rubber, with tip opaque to X-ray and nine side eyes, 48 in. long, sizes: 7, 8 and 9 English Catheter Gauge .. each



S4163

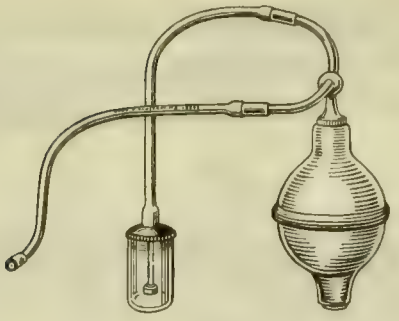
S4163 "HULL PATTERN" NASAL CATHETER, rubber, with whistle tip and six side eyes, graduated, 15 in. long, sizes: 3 to 8 English Catheter Gauge .. each



S4164

S4164 NASAL CATHETER, rubber, with terminal hole, 15 in. long, sizes: 3 to 8 English Catheter Gauge .. .. each

†Can be supplied Opaque to X-rays if required, extra.



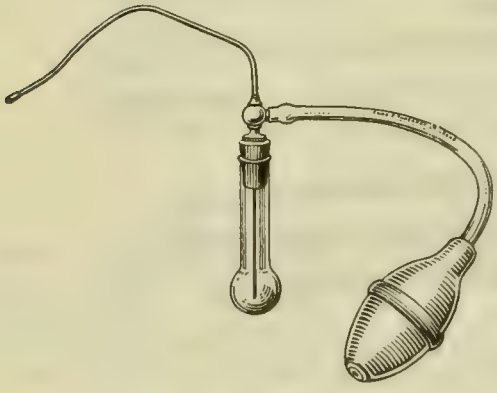
S4166

Cat. No.

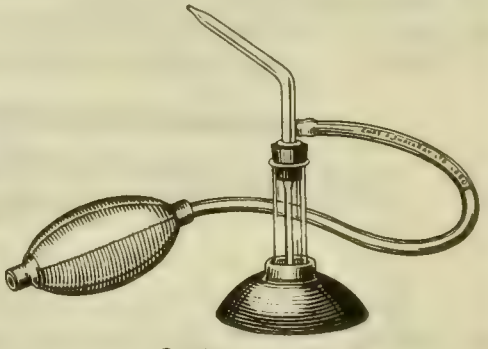
S4166 MACINTOSH'S COCAINE SPRAY, nasal pattern, consisting of: plastic container, rubber tube, and rubber bulb .. .. each

S4167 Ditto .. oral pattern, with wire insert in tube .. .. .. each

Spare Parts: see below.



S4168



S4169

S4168 ROWBOTHAM'S COCAINE SPRAY, consisting of: glass container, metal tube and rubber bulb .. .. each

S4169 C.F.T. PATTERN COCAINE SPRAY, consisting of: glass container, glass tube, detachable rubber base and rubber bulb .. .. each

S4170 Spare Glass Tubes for above .. .. each

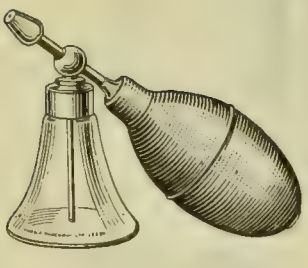
S4171 Spare Rubber Bulbs for S4166–9 .. .. each

S4171A Ditto .. for S4165 .. .. each

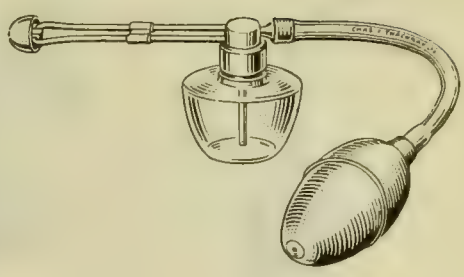
S4171B Spare Glass Containers to fit sprays figs. S4165, S4168–9 .. .. each

S4172 Rubber Base (as shown in fig. S4169) to fit sprays figs. S4165 and S4168, each

NOTE.—The above specifications for Sprays figs. S4166–8 *supersede those shown on page* G30 *of the* GENERAL OPERATION *section of this catalogue.*



S4173



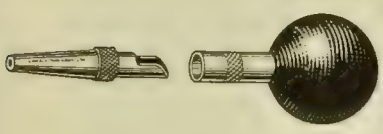
S4174

Cat. No.

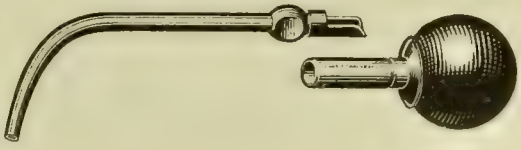
S4173 THE "ATOMIST" SPRAY, for throat and nasal use, for aqueous and light oily solutions, with rubber bulb .. .. each

S4174 THE "ATOMIST" ATOMISER, for general use, for aqueous and oily solutions, with adjustable spray tip, detachable nasal mount and rubber bulb .. each

Spare parts available on request.



S4175

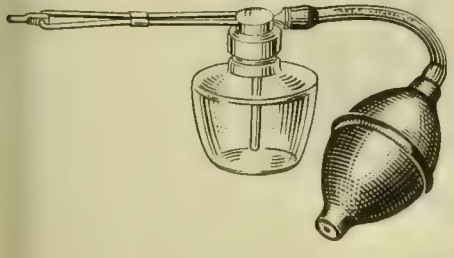


S4176

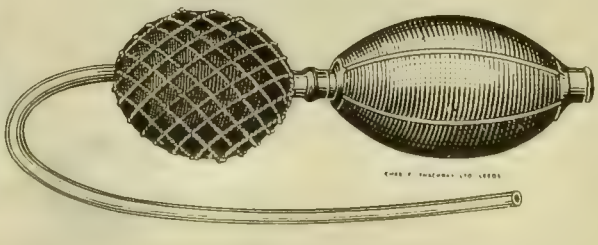
S4175 "SIMPLIC" INSUFFLATOR, with aluminium tube and rubber bulb, each

S4176 RAUCHFUSS' INSUFFLATOR, with curved vulcanite tube and rubber bulb, each

S4177 Ditto .. with straight tube .. .. each



S4178

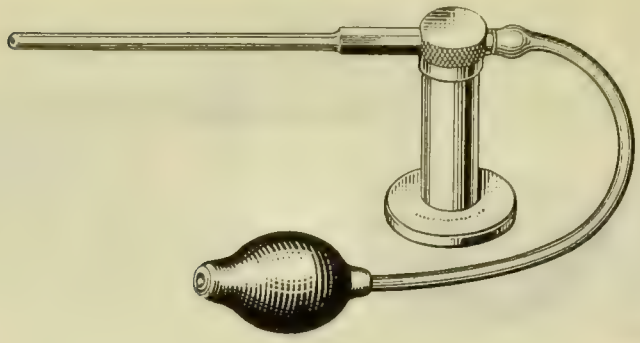


S4179

S4178 THE "ATOMIST" INSUFFLATOR, with adjustable tip and rubber bulb, each

Spare parts available on request.

S4179 DOUBLE BELLOWS, rubber, six sizes: 1 to 6 .. .. .. each

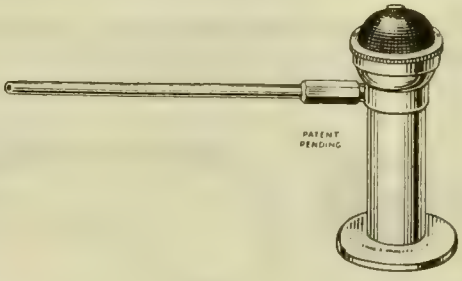


S4180

Cat. No.

S4180 "R.A.F. PATTERN" INSUFFLATOR, chromium plated container and tube, with rubber bulb .. .. each

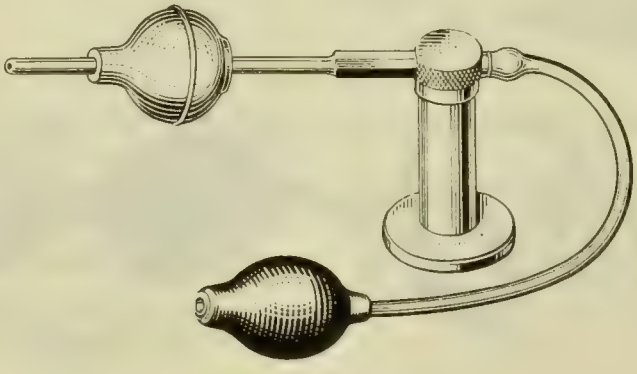
S4180A Spare Rubber Bulbs .. .. each



S4181

S4181 ONE-HANDED INSUFFLATOR (modified "R.A.F. Pattern") consisting of: chromium plated container and tube with rubber thumb-press top to container, each

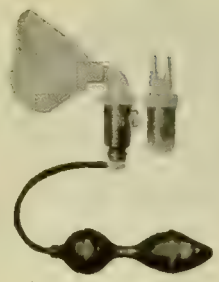
S4181A Spare Rubber Tops .. .. each



S4182

S4182 VAGINAL INSUFFLATOR (modified "R.A.F. Pattern") chromium plated container and tube, with rubber vaginal nozzle adjustable along tube, and rubber bulb .. .. each

S4182A Spare Rubber Bulbs .. .. each



S4183



S4184



S4185

Cat. No.

S4183 "LEWLAB" PLASTIC INHALER, model A, complete with nosepiece, plastic facepiece and rubber double bellows .. .. each

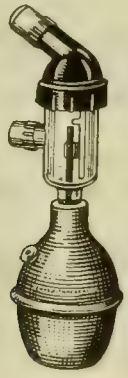
Easy to operate and clean. Parts of unbreakable plastic. Double bellows ensure continuous flow. Outlet in reservoir for exhaled air. This model should not be sterilized by heat or cleaned with very hot water. Spare parts available on request.

S4184 "LEWLAB" PLASTIC INHALER, pocket model B, complete with nosepiece and single rubber bulb .. .. each

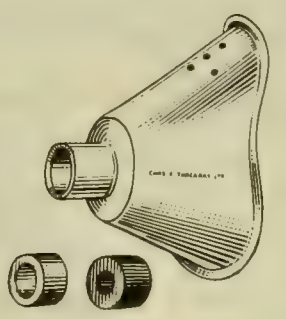
A leakproof inhaler producing a very fine vapour. Easy to operate and clean. Parts of unbreakable plastic. This model should not be sterilized by heat or very hot water. Spare parts available on request.

S4185 "LEWLAB" GLASS INHALER, pocket model C, with single rubber bulb, each

Constructed on same principle as models A and B, but made of amber glass to prevent decomposition of the solution. Glass reservoir is annealed to withstand heat sterlization. Spare parts available on request.



S4186



S4187

S4186 "DEEDON" PLASTIC INHALER (Patent No. 569541), complete with single rubber bulb .. .. each

For atomisation of all inhalants including penicillin and Brovon Asthma inhalant. Spare parts available on request.

S4187 PLASTIC FACE MASK, for above, adaptable by means of rubber collars enclosed with face mask .. .. each

The above inhaler and mask should not be sterilized by heat or very hot water.



S4188



S4190

Cat. No.		
S4188	FINGER COTS, rolled, thin rubber, in boxes of twelve	per box
S4189	Ditto .. packed loose, in boxes of one gross	per box
S4190	FINGER STALLS, with flange, Latex rubber, for one finger	each
*S4191	Ditto .. for two fingers	each
*S4192	SURGEONS' GLOVES, rubber, rough or smooth surface finish, sizes: 6, 6½, 7, 7½, 8, 8½, 9, 9½ and 10	per pair
S4192A	Ditto .. Latex rubber, for use in tropics, rough or smooth ..	per pair
*S4193	OBSTETRICAL GAUNTLETS, rubber, elbow length, rough or smooth surface finish, sizes: 6 to 9	per pair
*S4194	Ditto .. Latex rubber, rough or smooth	per pair
*S4194A	POST MORTEM GLOVES "IMPERIAL" BRAND, without gauntlets, black rubber, smooth or rough finish, sizes 6½, 7, 7½, 8, 8½	per pair
*S4194B	Ditto .. with gauntlets, sizes 6½, 7, 7½, 8, 8½	per pair
*S4195	RUBBER APRONS, with metal eyelets for tape, colours: red, white and green (*when ordering please state overall length and colour required*)	each
*S4196	POST MORTEM APRONS, red rubber, with chains, overall length: 50 in. (*other sizes on request*)	each
*S4197	ANTI-STATIC PROOFED RUBBER APRONS, black, with metal eyelets for tape, overall lengths up to 52 in. (*when ordering please state length required*),	each
*S4198	Ditto .. LIGHTWEIGHT	each
*S4199	DENBAR PLASTIC APRONS, surgeons', translucent, overall length: 48 in.,	each
*S4200	Ditto .. opaque	each
*S4201	Ditto .. women's, translucent, with adjustable strap, overall length: 40 in.,	each
*S4202	Ditto .. opaque	each
	Spring clips can be fitted to Denbar Aprons at neck and waist, at extra cost.	
*S4203	DENBAR PLASTIC HEAD CAPE, translucent, 36 in. diameter ..	each
*S4204	DENBAR PLASTIC E.N.T. CAPS, translucent	each
*S4205	CORRUGATED RED RUBBER DRAIN, in sheets, 12 in. by 6 in. ..	each

**Not illustrated*



S4206

Cat. No.		
S4206	HIGGINSON'S ENEMA SYRINGE, rubber, with bone pipe ..	each
*S4207	Ditto .. with strainer valve	each
S4208	Spare Bone Pipes	each



S4213

S4213	HALF-WELLINGTON BOOTS, white rubber, with *anti-static rubber* soles for men, sizes: 6 to 12	per pair
*S4214	Ditto .. for women, sizes: 3 to 8	per pair

NOTE.—Wellington Boots with anti-static soles available in half length ONLY.



S4217

S4217	CANVAS SHOES, white, with *anti-static rubber* heels, for men, sizes: 6 to 12,	per pair
*S4218	Ditto .. for women, sizes: 3 to 8	per pair

NOTE.—Half sizes NOT available for figs. S4211-18.

**Not illustrated*

SURGICAL SUNDRIES

"PRESSOPLAST"

"Pressoplast" is a Lace Dressing or "Corset" with several important advantages. It enables the wound to be dressed and a dressing rapidly changed without undue disturbance to the patient, thus overcoming the disadvantages of the many-tailed bandage. It gives even support to the wound (especially where this may be insecure) and does not constrict the chest or abdomen. "Pressoplast" is invaluable for applying pressure to closed wounds, for closing incisions without sutures and for the approximation of callous wounds. It is also used after amputations to exert traction on the skin and after goitre operations and those on the jaw. "Pressoplast" saves time, labour and material.

"Pressoplast" consists of a sheet of non-irritant zinc oxide plaster, perforated to allow skin ventilation, along one longitudinal edge being fixed a malleable piece of copper with corset hooks. It adheres firmly to the skin without creeping and when the lace is applied, firm traction is obtained. Once applied, it is allowed to remain *in situ*, the "corset" being undone and the dressing changed as required. Sheets may be easily cut to the size required according to the length of the incision.

There are two standard sizes: 12 in. by 5 in. and 12 in. by 10 in., as specified on opposite page.



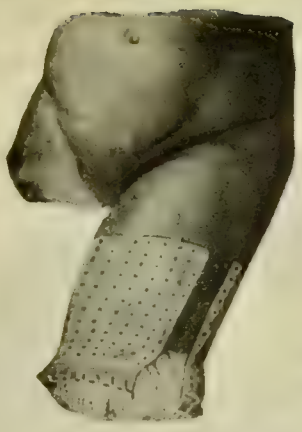
Operation for Appendicitis with unclosed Incision (1st stage of dressing)



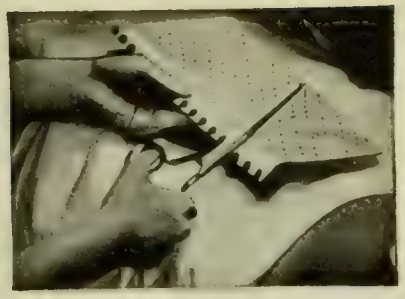
Operation for Appendicitis with unclosed Incision (2nd stage of dressing)



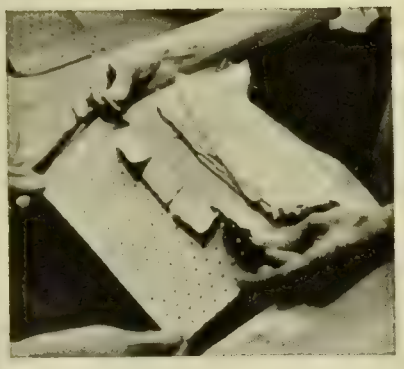
Operation for Appendicitis wit unclosed Incision (3rd stage c dressing)



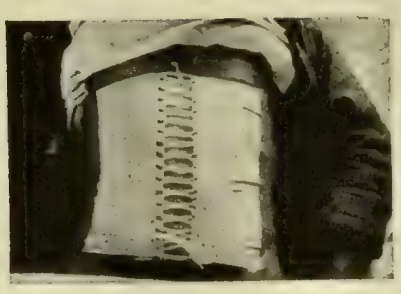
Strapping for Surface Tension
in unsutured Amputation.



A



B



C

S4219–22

"†Laparotomy 'Corsets':

"We find the ready-made abdominal laparotomy 'corsets' supplied by Messrs. Thackray, of Leeds, exceedingly valuable.

"If the 'corset' is cut as shown (Fig. A), it can be adapted to the contour of the abdomen; Fig. B: this shows the appearance of the 'corset' after cutting. The adhesive surface is applied evenly to the lateral abdominal wall and held until it has adhered firmly; Fig. C: the 'corset' in use. In certain cases—for instance, in a very stout patient or when the wound is transverse—it will be found that the 'corsets' fit much better and are more comfortable if they are cut every three or four inches. Cutting the 'corsets' makes them more pliable and enables them to be fitted to an uneven contour. In order to avoid an explanation of the method of cutting, reference to Figs. A, B and C will make the procedure quite clear."

†*Reprinted by kind permission of Mr. Hamilton Bailey, F.R.C.S., Editor of "Pye's Surgical Handicraft" and of the publishers, Messrs. John Wright & Sons, Ltd., Bristol.*

Cat. No.

S4219	No. 1 Size, measuring 12 in. by 5 in., each sheet complete with "corset" lace,	per sheet
S4220	Ditto .. in boxes of 10 sheets	per box
S4221	No. 2 Size, measuring 12 in. by 10 in., each sheet complete with "corset" lace,	per sheet
S4222	Ditto .. in boxes of 5 sheets	per box

SURGICAL SUNDRIES

DRESSINGS

†OPTULLE BRAND PARAFFIN GAUZE, B.P.C., is open mesh gauze, impregnated with Balsam of Peru in petroleum jelly base, prepared under aseptic conditions and heat sterilized after packing in the containers. It is subject to stringent laboratory control before issue.
Optulle dressings are non-adherent and easily removed without pain or injury to fragile, healing tissues. Optulle dressings do not require frequent changing.

Applications:
Burns, Scalds, Septic Wounds, Plastic Surgery, Ulceration, Excoriations, Abrasions, Cuts, Grazes, Mild Skin Infections and Impetigo.

Cat. No.

S4223	Packed in tins containing 5 pieces	per tin
S4224	Ditto .. in tins containing 10 pieces	per tin
S4225	Ditto .. in tins containing 24 pieces	per tin
S4226	Ditto .. in tins containing 36 pieces	per tin
S4227	Ditto .. in tins containing a *continuous strip* approx. 8 in. by 5 yds.,	per tin
S4228	Ditto .. in tins containing a *continuous strip* approx. 3¾ in. by 8 yds.,	per tin
S4229	Packed in card boxes containing 12 pieces approx. 3¾ in. by 3¾ in. ..	per box
†S4230	PENICILLIN TULLE (Optulle Brand), sterile, packed in tins containing 10 pieces approx. 3¾ in. by 3¾ in.	per tin

†*Fully descriptive leaflet, available on request.*

S4231A	TUBULAR BANDAGE, size 01, for small fingers or toes, in 25 yard rolls,	per roll
S4232B	Ditto .. size 12, Infants' hands and feet ..	per roll
S4233C	Ditto .. size 34, Adults' small hands, arms and feet	per roll
S4234D	Ditto .. size 56, Adults' arms, lower legs, small thighs and small heads,	per roll
S4234E	Ditto .. size 78, Adults' legs, thighs and heads	per roll
S4234F	Applicators for above size 0 for 01 Gauze	each
S4234G	Applicators sizes 1 and 2 for 12 Gauze	each
S4234H	Ditto .. sizes 3 and 4 for 34 Gauze	each
S4234K	Ditto .. sizes 5 and 6 for 56 Gauze	each
S4234L	Ditto .. sizes 7 and 8 for 78 Gauze	each

SULPHONA-TULLE (Optulle Brand) is open mesh gauze containing the optimum content of sulphanilamide (10%) in a stable water-in-oil emulsion, a form in which it may readily be absorbed. The dressings are non-adherent and may consequently be removed painlessly and without bleeding. The open mesh character of the Tulle ensures adequate drainage in the treatment of infected wounds.

Applications:
Infected Burns, Wounds, Skin Conditions and Varicose Ulcers.

Cat. No.

S4236	SULPHONA-TULLE (Optulle Brand), packed in tins containing one continuous strip approx. 3½ in. by 5 yds.	per tin

Fully descriptive leaflet available on request.

SULPHATHIAZOLE TULLE (Optulle Brand) is open mesh gauze impregnated with a yellow soft paraffin base containing 5% Sulphathiazole.

Applications:
As for Sulphona-Tulle.

†S4237	Packed in card boxes containing 12 pieces approx. 3¾ in. by 3¾ in.	per box
S4238	Ditto .. in tins containing 5 pieces	per tin
S4239	Ditto .. in tins containing 10 pieces	per tin
S4240	Ditto .. in tins containing 36 pieces	per tin

S4240A STOCKINETTE, sizes 2 in., 2½ in., 3 in., 4 in., 6 in., 8 in., 10 in. and 12 in. wide per 12 yards

†*Each piece in separate envelope.*



Davis & Geck

REGD.

SURGILOPE SP†

GAMMA-IRRADIATED STERILE CATGUT and ATRAUMATIC NEEDLE SUTURES

Tensile strength considerably in excess of BP. standards

SURGILOPE SP† Packaging offers:

Reduction of Storage Space	Compact carton contains twelve sterilised sutures individually packed ready for immediate use.
Elimination of Glass Hazards	Double plastic envelopes of laminate of polyethylene and polyester.
Time saving	Transparent envelopes can be opened without the use of instruments and give immediate positive identification of the product.
Economy	Inner envelopes if not used can be resterilized in either D. & G. "HIBITANE"* or Formaldehyde and similar storage fluids.

See pages 928 to 932 for DETAILED PRODUCT LIST.

†Registered Trade Mark. *Trade Mark of I.C.I. Ltd.

Davis & Geck
REGD.

FLEXON*

multistrand stainless steel sutures

Manufactured from extremely fine soft-tempered steel filaments, twisted to form a suture which handles like silk, for use in surgical procedures where non-absorbable sutures of exceptional strength are required.

FLEXON offers the following specific advantages:

- Freedom form kinking, giving easier handling and tying.
- Greater flexibility than conventional multistrand wire sutures.
- Exceptional strength and durability, permitting use of very fine sizes.
- High resistance to fragmentation.
- An almost complete absence of tissue reaction.
- Non-magnetic and non-corrosive in all tissues.

Packed in compact cartons containing 12 sutures, each in SURGILOPE SP† double plastic envelope, sterilized ready for use.

Product No.	Gauge	Length	Needle Description
12533–43	3–0	27 in.	26 mm. half circle reverse cutting
12533–53	2–0	27 in.	26 mm. half circle reverse cutting
12535–63	0	27 in.	48 mm. half circle reverse cutting
12536–43	3–0	27 in.	37 mm. half circle reverse cutting
12543–33	4–0	18 in.	19 mm. curved reverse cutting
12548–23	5–0	27 in.	20 mm. half circle round bodied
12548–33	4–0	27 in.	20 mm. half circle round bodied
12553–23	5–0	27 in.	25 mm. half circle round bodied
12553–33	4–0	27 in.	25 mm. half circle round bodied
12553–43	3–0	27 in.	25 mm. half circle round bodied
12554–43	3–0	27 in.	37 mm. half circle round bodied
12554–53	2–0	27 in.	37 mm. half circle round bodied
12555–43	3–0	27 in.	37 mm. half circle round bodied stout
12555–53	2–0	27 in.	37 mm. half circle round bodied stout
12555–63	0	27 in.	37 mm. half circle round bodied stout
12562–43	3–0	18 in.	24 mm. curved reverse cutting
12562–53	2–0	18 in.	24 mm. curved reverse cutting
12564–53	2–0	18 in.	30 mm. curved reverse cutting
12564–63	0	18 in.	30 mm. curved reverse cutting
12568–23	5–0	18 in.	25 mm. straight cutting **double armed**
12570–33	4–0	27 in.	64 mm. straight cutting
12570–43	3–0	27 in.	64 mm. straight cutting
12570–53	2–0	27 in.	64 mm. straight cutting

*Trademark. †Reigstered Trademark.

SURGICAL SUNDRIES

LIGATURE AND SUTURE MATERIALS

NYLON SUTURE MATERIAL

(non-absorbable)

DESCRIPTION AND USES, ETC.

Nylon is a synthetic polyamide which may be formed into filaments characterised by great toughness, elasticity and strength. Nylon sutures have the following advantages:

- Non-capillary.
- High tensile strength, even when wet.
- Uniform calibre of every strand.
- Uniformity in sizes and between sizes.
- Easy removal from tissue due to exceptional smoothness.
- Distinctive colours which remain fast in boiling water.
- Non-irritant to tissues.

The perfect skin and tension suture material. Nylon Monofilaments are supplied in 14 in. and 40 in. lengths and are within the limits of diameters set out below.

Each size is supplied in one colour only.

STERILIZATION:

Nylon surgical sutures may be sterilized by boiling in water, or autoclaving up to 27 lb. steam pressure per sq. in.

PRESERVATION:

Nylon surgical sutures may be stored preferably in a germicidal solution of 0·1 per cent mercuric iodide, dissolved in either water or industrial methylated spirit.

RE-STERILIZATION

The sutures withstand repeated sterilization three or four times.

WARNING:

Nylon sutures are incompatible with Carbolic Acid and all its homologues, and must not therefore be stored in any solution containing such antiseptics. This includes Lysol, and all the chlorinated phenol proprietary preparations.

DYES:

The material is dyed in a range of extremely fast colours by a patented process of Imperial Chemical Industries Limited.

MONOFILAMENT NYLON, dyed, in 14 in. or 40 in. lengths, packets of 100 strands.

14 in. lengths Cat. No.	40 in. lengths Cat. No.	B.P.C. Sizes	Diameter in inches	Colour
S 4244	S 4244 A	5–0	·004 to ·006	Black
S 4245	S 4245 A	4–0	·006 to ·008	Blue
S 4246	S 4246 A	3–0	·008 to ·010	Purple
S 4247	S 4247 A	2–0	·010 to ·013	Black
S 4249	S 4249 A	0	·013 to 0·16	Blue
S 4250	S 4250 A	1	·016 to ·019	Purple
S 4251	S 4251 A	2	·019 to ·022	Black

S 4252 FINLAYSON'S BRAIDED NYLON, green, 100 yds. on a spool.

B.P.C. Size	5–0	4–0	3–0	2–0	0	1	2	3	4	5
Approx. breaking strain in lbs.	1	2	3	4½	6	9	12	15	20	24

Size Cards for Monofilament Nylon and Braided Nylon available on request.

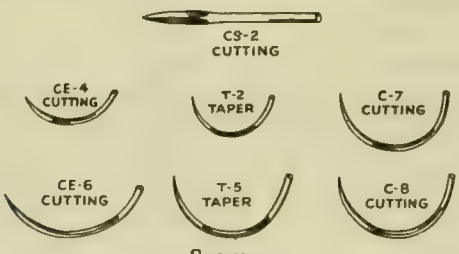
LIGATURE AND SUTURE MATERIALS



S4254

Cat. No.		
S4254	CHINESE TWIST SILK, white, sizes: 4/0 to 8, in *hanks* of 2 drams	.. per hank
S4255	Ditto .. black	.. per hank
S4256	Ditto .. 2 drams on a *reel*, white, sizes: 4/0 to 8	.. per reel
S4257	Ditto .. black	.. per reel
S4258	Ditto .. extra fine, white, for Ophthalmic Work	.. per reel
S4259	Ditto .. black	.. per reel
†S4260	Ditto .. coloured, for Radium Work: green, yellow, red, orange, violet and blue,	per reel
S4261	SILK, PLAITED, white, sizes: 00 to 18, in 12-yd. *hanks* ..	.. per hank
S4262	Ditto .. black	.. per hank
S4263	Ditto .. 1½ drams on a *reel*, white	.. per reel
S4264	Ditto .. black	.. per reel
†S4265	Ditto .. coloured, for Radium Work: green, yellow, red, orange, violet and blue,	per reel
S4266	SUTURE SILK, black, braided (non-capillary and serum proof) sizes: 5/0 to 4 U.S.P. (approx. equivalent to British Catgut sizes), 25 yds. on a spool, per spool	
S4267	TERYLENE, black or white braided (non-capillary and serum-proof), high breaking strain, sizes: 5/0 to 2, 25 yds. on a spool	per spool
S4268	BARBOUR'S LINEN THREAD, white, sizes: 12, 14, 16 to 22; 25, 30, 35 to 80; 90, 100, 110 to 160, 2 oz. on a reel	.. per reel
S4269	Ditto .. black	.. per reel
S4270	SILK FLOSS, sterilized, 5 yds. per tube, in boxes of three tubes ..	per box

†*Minimum quantity: 4 doz. reels of a colour.*



S4272–3

S4272 DAVIS & GECK SURGALOY SUTURE WIRE, 20 in., stainless steel, swaged-on Atraumatic (Regd.) Needles, sterilized, in hermetically sealed glass tubes, in boxes of twelve tubes of a kind.

On MONOSTRAND Wire:

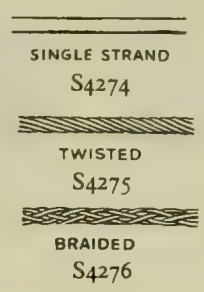
Surgical Use:	Product No.	Needle	U.S.P. Size	Per Box
Bone	1801	CS–2	0	
Plastic	1803	CE–4	6/0	
Nerve	1804	T–2	6/0	
Fascia, Hernia, Kidney, Peritoneum, Tendon, Thorax, Thyroid, Ureter	1805	T–5	5/0	
Cleft Palate and Harelip	1806	C–7	4/0	
Skin	1808	CE–6	4/0	
Tension	1809	C–8	000	
‡S4273 On MULTISTRAND Wire				
Plastic	1813	CE–4	5/0	
Fascia, Hernia, Kidney, Peritoneum, Tendon, Thorax, Thyroid, Ureter ..	1815	T–5	5/0, 000	
Tension	1819	C–8	000	

‡*Available unsterilized on reels: page* S773.

LIGATURE AND SUTURE MATERIALS



S4274–6



Cat. No.

S4274 SUTURE WIRE, annealed stainless steel, single strand, sizes: 18 to 47 S.W.G., 1 oz. on a reel .. .. each

S4275 Ditto .. Twisted, sizes: 18 to 40 S.W.G. (overall diameter) 12 ft. on reels, each

S4276 Ditto .. Braided, sizes: 18 to 40 S.W.G. (overall diameter) 12 ft. on reels, each

S.W.G.=Standard Wire Gauge.

TABLE FOR S.S. SUTURE WIRE

S.W.G. Over-all	Overall Diameter		S4274 Single Per Reel	S4275 Twisted Per Reel	S4276 Braided Per Reel	S.W.G. Over-all	Diameter Overall		S4274 Single Per Reel	S4275 Twisted Per Reel	S4276 Braided Per Reel
	in.	mm.	s. d.	s. d.	s. d.		in.	mm.	s. d.	s. d.	s. d.
18	·048	1·2				34	·0092	·233			
20	·036	·9				35	·0084	·213			
21	·032	·813				36	·0076	·193			
22	·028	·711				37	·0068	·172			
23	·024	·610				38	·0060	·152			
24	·022	·559				39	·0052	·132			
25	·020	·508				40	·0048	·121			
26	·018	·457				41	·0044	·112		*not made*	*not made*
27	·0164	·416				42	·0040	·101		,,	,,
28	·0148	·375				43	·0036	·091		,,	,,
29	·0136	·345				44	·0032	·081		,,	,,
30	·0124	·315				45	·0028	·071		,,	,,
31	·0116	·294				46	·0024	·061		,,	,,
32	·0108	·274				47	·0020	·050		,,	,,
33	·0100	·254									

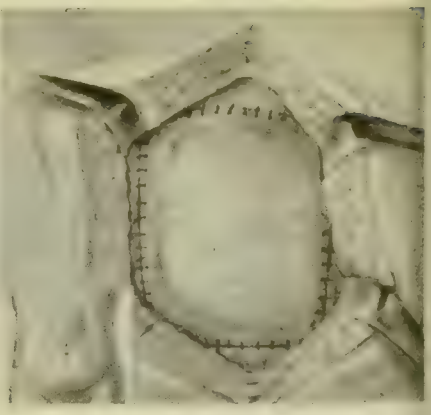
*S4277 DAVIS & GECK SURGALOY SUTURE WIRE, stainless steel, Multistrand, sizes: 6/0 to 0, in packages of ten reels, 190 in. on a reel (unsterilized). Product No. 70 .. .. per pkt.

**Not illustrated*

SURGICAL SUNDRIES

LIGATURE AND SUTURE MATERIALS





S4279

DAVIS & GECK SURGALOY (Regd.) MESH is 50 x 50 mesh made from an 18–8 stainless steel monostrand wire, 0·003 in. in diameter. It is supplied in sheets 6 x 12 in., sufficient for two large hernia operations.

Previous to surgical use, the mesh should be cleaned with soap and water and rinsed in water and alcohol. The mesh is then sterilized by boiling or autoclaving.

The size of the Surgaloy Mesh to be used in any surgical reconstructive procedure is determined by the size of the defect to be covered, plus a liberal extension on either side for secure anchorage to strong white fascia. Dissection should be done with this fundamental concept in mind to ensure success of the surgical procedure.

After the size of the piece of mesh to be implanted has been determined, enough extra area should be allowed to fold over the edges a distance of about $\frac{3}{16}$ to $\frac{7}{16}$ in. This avoids sharp ends along the edges of the implanted mesh and provides a double thickness of mesh through which to suture. In trimming or cutting stainless steel mesh, †Jonas states that the line of division should parallel a single strand of wire. Old surgical scissors may be used. Loose strands should be cut off, not pulled out.

Surgaloy Mesh should be sutured in place with Surgaloy stainless steel sutures, either monostrand or multistrand. These are available with or without Atraumatic (Regd). Needles. See page S772.

The advantages of Surgaloy stainless steel mesh are those which are inherent in the material itself, namely:

Resists Fragmentation: while any metallic mesh may fragment if subjected to excessive and continuous bending, Surgaloy stainless steel mesh is an alloy especially resistant to "work hardening".

Exceptional Strength: one of the notable features of stainless steel is its exceptional strength. In the surgical application of stainless steel mesh, this property is particularly important because of its use to reinforce weakened supportive structures.

Flexibility: the ease with which Surgaloy Mesh may be shaped and its ready flexibility conforming to body surfaces make Surgaloy Mesh an ideal material with which to work.

Completely Inert: Surgaloy stainless steel mesh is inert, resistant to corrosion in body tissues, almost completely free from tissue reaction, non-magnetic and electro-passive in tissue fluids alone or associated with tantalum.

Appropriate Size: the mesh size is such that it allows granulations to grow into a sheet incorporating the whole with the surrounding tissues.

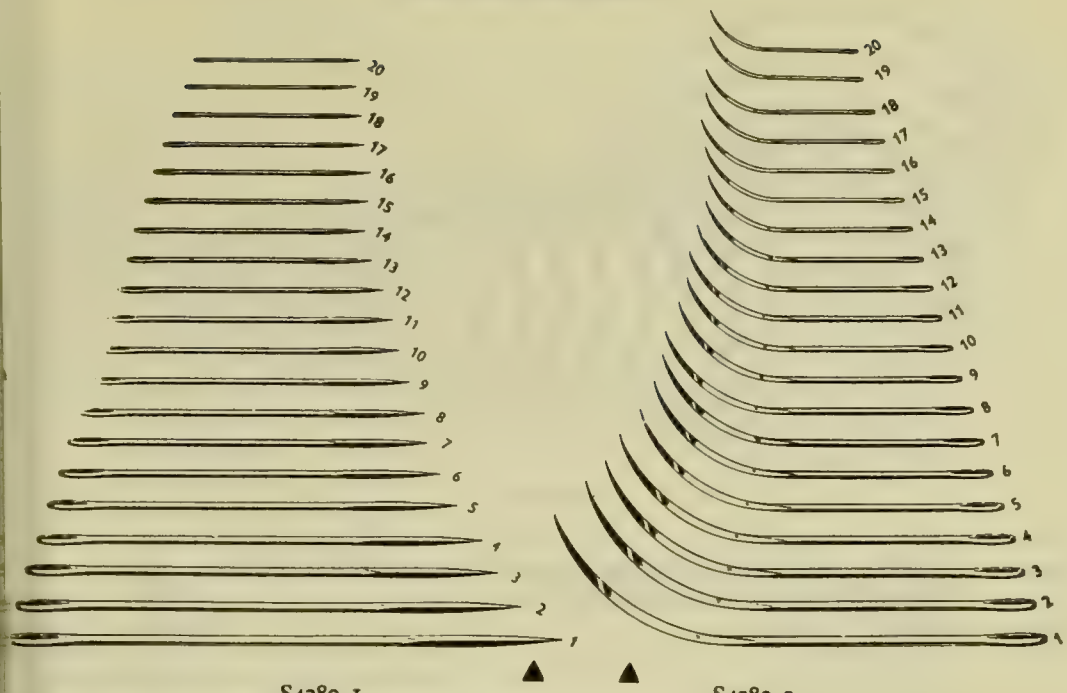
Cat. No.

S4279 DAVIS & GECK SURGALOY MESH, 6 by 12 in., 50 x 50 mesh, wire diameter 0·003 in. Packed flat, one sheet to an envelope. Product No. 71 . . per sheet

†*Jonas, K.C., "Stainless Steel Cloth as an Internal Prosthesis", Arch. Surg.* 60:1205–17 (*June* 1950).

Fully descriptive leaflet available on request.

SUTURE NEEDLES



S4280–1 S4282–3

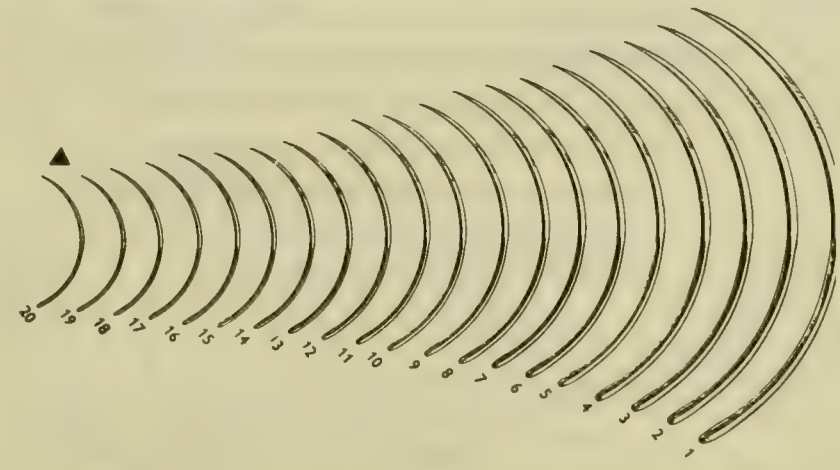
Cat. No.

S4280 SUTURE NEEDLES, triangular points (cutting), **straight**, *carbon steel*, twenty sizes: 1 to 20, in packets of six of a size .. .. per pkt.

S4281 Ditto .. *stainless steel* .. .. per pkt.

S4282 SUTURE NEEDLES, triangular points (cutting), **half-curved**, *carbon steel*, twenty sizes: 1 to 20, in packets of six of a size .. .. .. per pkt.

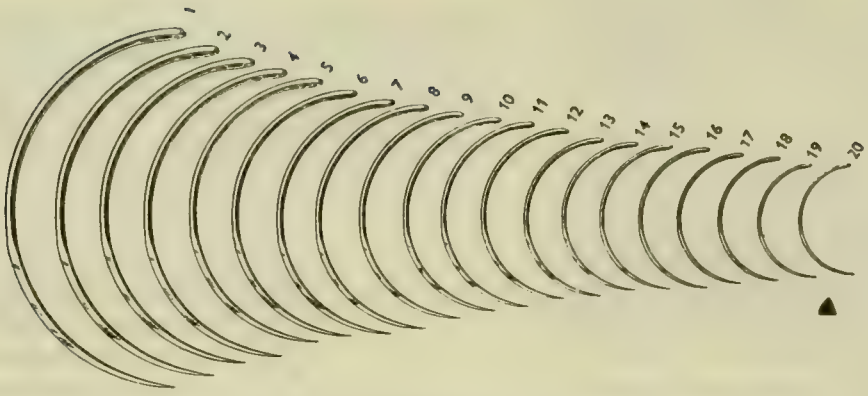
S4283 Ditto .. *stainless steel* .. .. per pkt.



S4284–5

S4284 SUTURE NEEDLES, triangular points (cutting), **curved**, *carbon steel*, twenty sizes: 1 to 20, in packets of six of a size .. .. per pkt.

S4285 Ditto .. *stainless steel* .. .. per pkt.

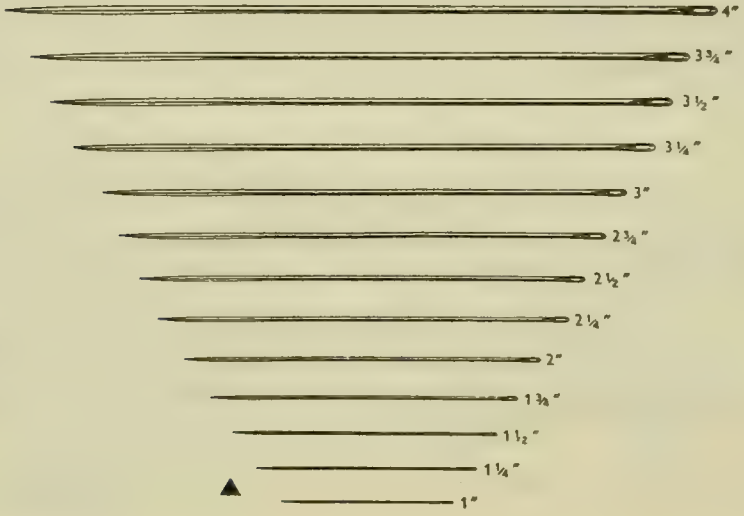


S4286–7

Cat. No.

S4286 SUTURE NEEDLES triangular points (cutting) **half-circle,** *carbon steel,* twenty sizes: 1 to 20, in packets of six of a size . .. .. per pkt.

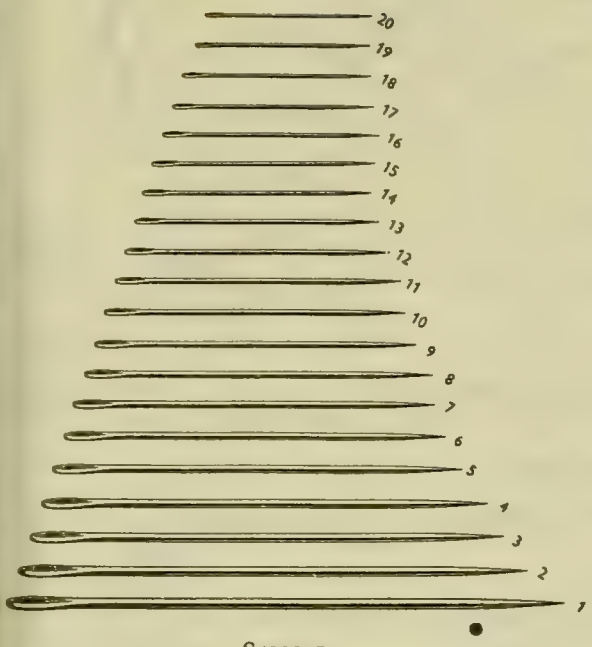
S4287 Ditto .. *stainless steel* .. .. per pkt.



S4288–9

S4288 SUTURE NEEDLES, **fine,** triangular points (cutting), **straight,** *carbon steel,* thirteen sizes: 1 in. to 4 in., in packets of six of a size .. .. per pkt.

S4289 Ditto .. *stainless steel* .. .. per pkt.



S4290–1



S4293–3

Cat. No.

S4290 SUTURE NEEDLES, round bodied, **straight**, *carbon steel*, twenty sizes: 1 to 20, in packets of six of a size .. .. per pkt.

S4291 Ditto .. *stainless steel* .. .. per pkt.

S4292 SUTURE NEEDLES, round bodied, **curved**, *carbon steel*, twenty sizes: 1 to 20, in packets of six of a size .. .. per pkt.

S4293 Ditto .. *stainless steel* .. .. per pkt.



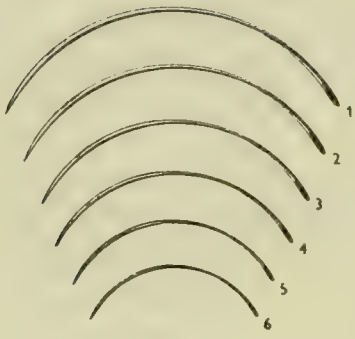
S4294–5

S4294 SUTURE NEEDLES, round bodied, **half-circle**, *carbon steel*, twenty sizes: 1 to 20, in packets of six of a size .. .. per pkt.

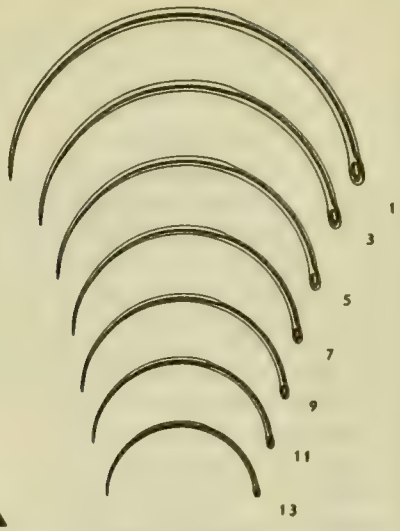
S4295 Ditto .. *stainless steel* .. .. per pkt.

SURGICAL SUNDRIES

SUTURE NEEDLES



S4296



S4297 & S4300

Cat. No.

†S4296 SUTURE NEEDLES, **Abscission,** *carbon steel,* six sizes: 1 to 6, in packets of six of a size .. .. per pkt.

S4297 BONNEY'S SUTURE NEEDLES, **half-circle,** *carbon steel,* seven sizes: 1 to 13, in packets of six of a size .. .. per pkt.

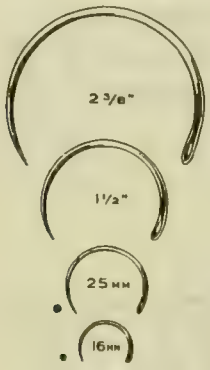
*S4298 Ditto .. **curved** .. .. per pkt.

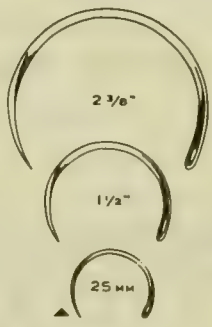
*S4299 Ditto .. **straight** .. .. per pkt.

S4300 BONNEY'S SUTURE NEEDLES, **half-circle,** *stainless steel,* seven sizes: 1 to 13, in packets of six of a size .. .. per pkt.

*S4301 Ditto .. **curved** .. .. per pkt.

*S4302 Ditto .. **straight** .. .. per pkt.







S4303 S4304 S4305

S4303 DENIS BROWNE'S SUTURE NEEDLES, **round points,** *carbon steel,* four sizes: 16 mm., 25 mm., 1½ in. and 2⅜ in., in packets of six of a size .. per pkt.

S4304 Ditto .. **triangular points,** three sizes: 25 mm., 1½ in. and 2⅜ in. .. per pkt.

S4305 Ditto .. **probe-points,** size 2⅜ in. .. .. per pkt.

Denis Browne's Suture Needles are fully curved, and are based on the idea that nearly every surgical stitch, when tied, approximates closely to a circle. In consequence, the more closely the actual track of the needle corresponds to this the more evenly will tension be applied to the tissues. The shafts are flattened as far as possible to the point so as to prevent rotation of the needle when in the holder.

†*Stainless steel on request.* **Not illustrated*



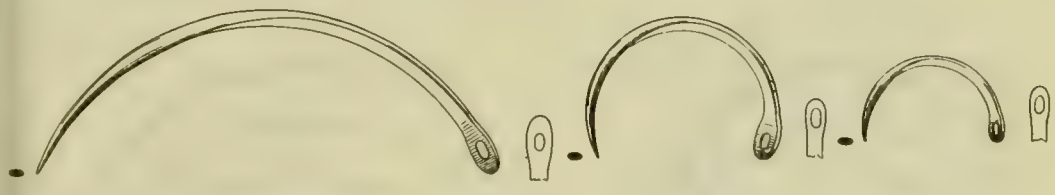
S4306 S4308

Cat. No.

S4306 CARRELL'S SUTURE NEEDLES, **Arterial, curved,** *carbon steel,* one size: 20 mm., in packets of six .. .. per pkt.

*S4307 Ditto .. **straight** .. .. per pkt.

†S4308 COLT'S SUTURE NEEDLES, **Tension,** *carbon steel,* three sizes: 3 in., 3½ in. and 4 in., in packets of six of a size .. .. per pkt.

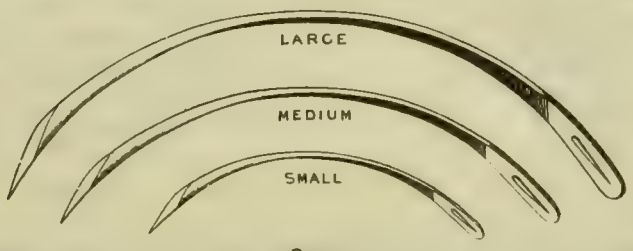


S4309 S4310 S4311

†S4309 COWELL'S SUTURE NEEDLES, **Ventral Hernia,** *carbon steel,* in packets of six .. .. per pkt.

†S4310 Ditto .. **Inguinal Hernia** .. .. per pkt.

†S4311 Ditto .. **Femoral Hernia** .. .. per pkt.



S4312

S4312 DOYEN'S SUTURE NEEDLES, **Uterine,** *carbon steel,* three sizes: small, medium and large, in packets of six of a size .. .. per pkt.

†*Stainless steel on request.* **Not illustrated*



S4313–4



S4315–6

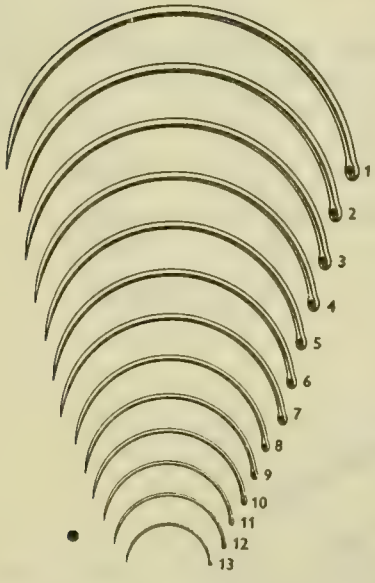
Cat. No.

S4313 SUTURE NEEDLES, Eye, **half-curved,** *carbon steel,* six sizes: 1 to 6, in packets of six of a size .. .. per pkt.

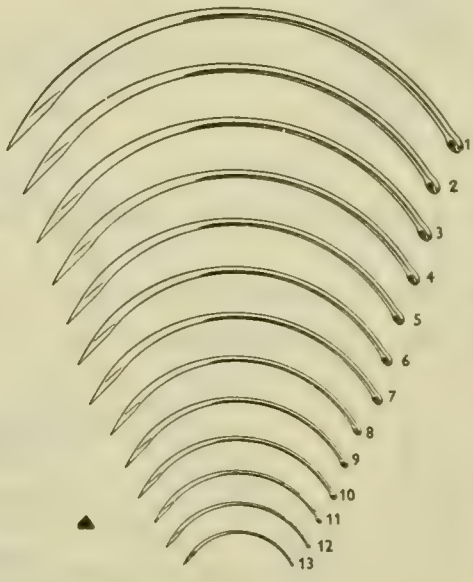
S4314 Ditto .. *stainless steel* .. .. per pkt.

S4315 SUTURE NEEDLES, Eye, **curved,** *carbon steel,* six sizes: 1 to 6, in packets of six of a size .. .. per pkt.

S4316 Ditto .. *stainless steel* .. .. per pkt.



S4317

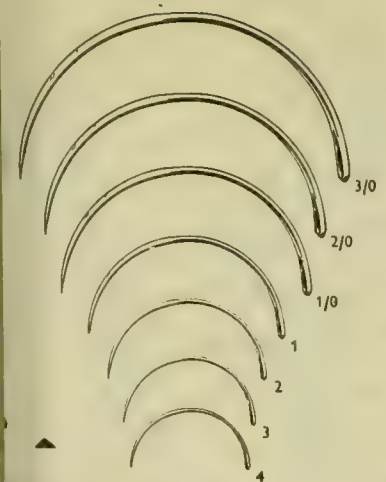


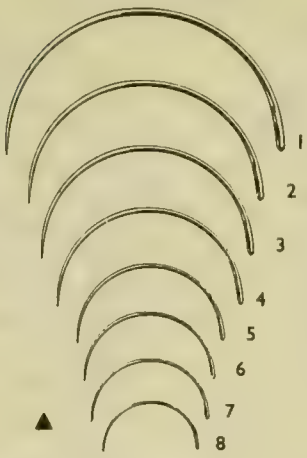
S4318

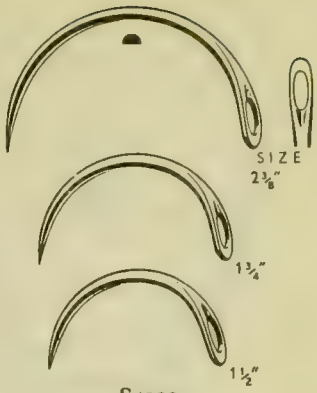
†S4317 FERGUSSON'S SUTURE NEEDLES, **round points,** *carbon steel,* thirteen sizes: 1 to 13, in packets of six of a size .. .. per pkt.

†S4318 FERGUSSON'S SUTURE NEEDLES, **triangular points,** *carbon steel,* thirteen sizes: 1 to 13, in packets of six of a size .. .. per pkt.

†*Stainless steel on request.*



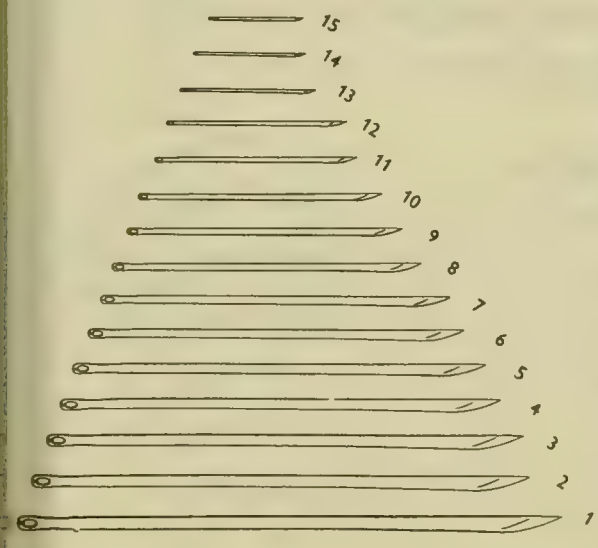




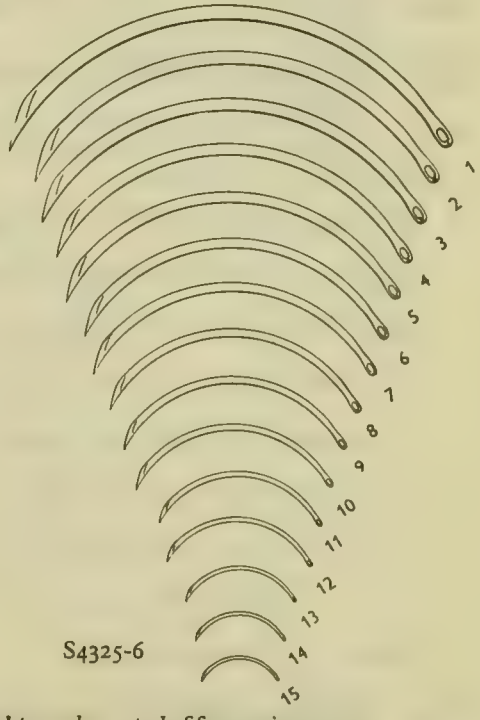
S4322

Cat. No. S4319–20 S4321

S4319 SUTURE NEEDLES, **Fistula, half-circle,** *carbon steel,* seven sizes: 3/0 to 4, in packets of six of a size .. .. per pkt.
S4320 Ditto .. *stainless steel* .. .. per pkt.
S4321 SUTURE NEEDLES, **Fistula, fine, half-circle,** *carbon steel,* eight sizes: 1 to 8, in packets of six of a size .. .. per pkt.
S4322 GALLIE'S SUTURE NEEDLES, **for Fascia,** *carbon steel,* three sizes: small, medium and large, in packets of six of a size .. .. per pkt.



S4323-4

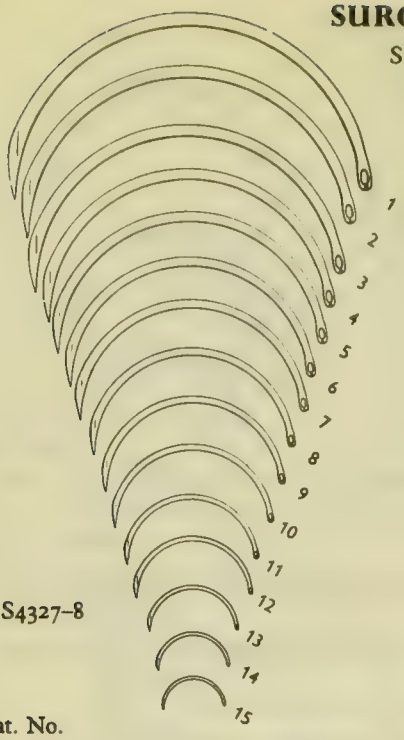


S4325-6

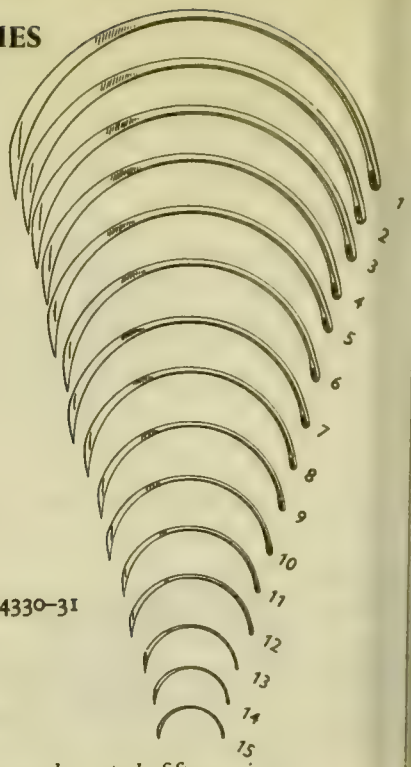
S4323 HAGEDORN'S SUTURE NEEDLES, **straight,** *carbon steel,* fifteen sizes: 1 to 15, in packets of six of a size .. .. per pkt.
S4324 Ditto .. *stainless steel,* sizes 4–10 only .. .. per pkt.
S4325 HAGEDORN'S SUTURE NEEDLES, ⅜ **circle,** *carbon steel,* fifteen sizes: 1 to 15, in packets of six of a size .. .. per pkt.
S4326 Ditto .. *stainless steel,* sizes 4–10 only .. .. per pkt.

SURGICAL SUNDRIES

SUTURE NEEDLES



S4327–8



S4330–31

Cat. No.

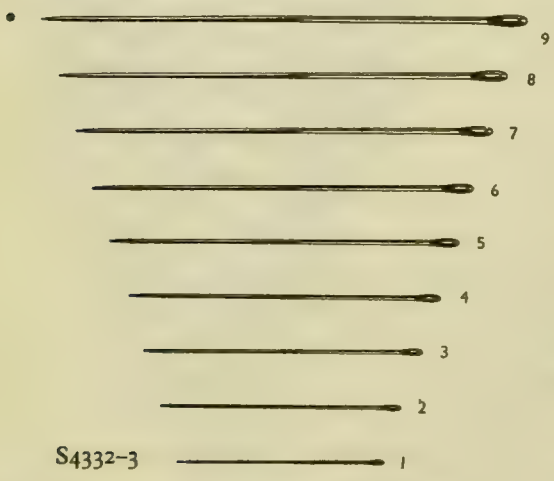
S4327 HAGEDORN'S SUTURE NEEDLES, **half-circle**, *carbon steel*, fifteen sizes: 1 to 15, in packets of six of a size .. .. per pkt.

S4328 Ditto .. *stainless steel* .. .. per pkt.

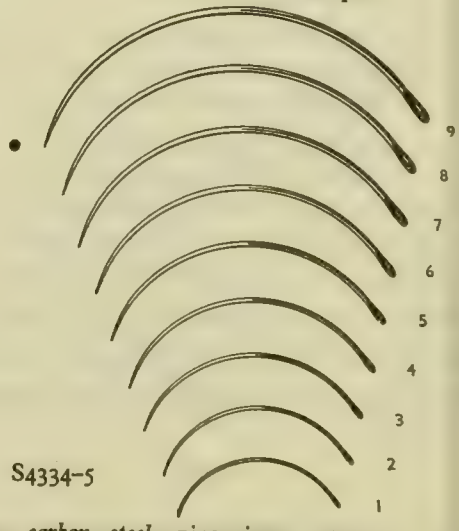
S4329 HAGEDORN'S SUTURE NEEDLES, $\frac{5}{8}$ **circle**, *carbon steel*, one size: $4\frac{1}{2}$ in., in packets of six .. .. per pkt.

S4330 HAGEDORN'S REVERSED SUTURE NEEDLES, **half-circle**, *carbon steel*, fifteen sizes: 1 to 15, in packets of six of a size .. .. .. per pkt.

S4331 Ditto .. *stainless steel* .. .. per pkt.



S4332–3



S4334–5

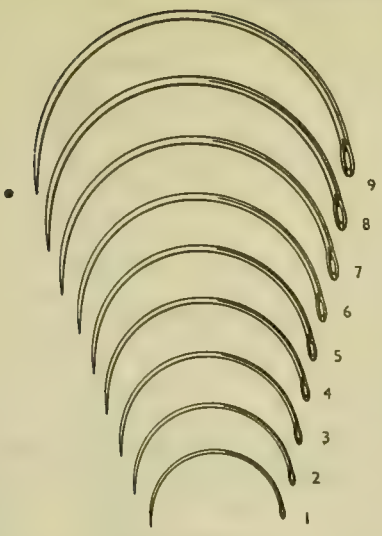
S4332 SUTURE NEEDLES, **Intestinal, straight**, *carbon steel*, nine sizes: 1 to 9, in packets of six of a size .. .. per pkt.

S4333 Ditto .. *stainless steel* .. .. per pkt.

S4334 SUTURE NEEDLES, **Intestinal, curved**, *carbon steel*, nine sizes: 1 to 9, in packets of six of a size .. .. per pkt.

S4335 Ditto .. *stainless steel* .. .. per pkt.

**Not illustrated*



S4336-7



S4338



S4339

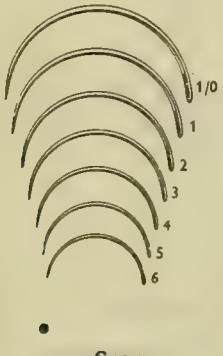
Cat. No.

S4336 SUTURE NEEDLES, **Intestinal, half-circle,** *carbon steel*, nine sizes: 1 to 9, in packets of six of a size .. .. per pkt.

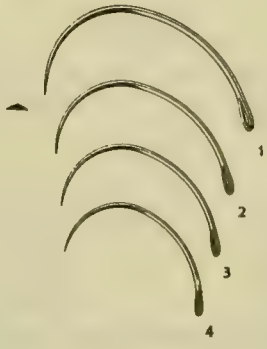
S4337 Ditto .. *stainless steel* .. .. per pkt.

S4338 JAMESON'S SUTURE NEEDLES, **Strabismus**, *carbon steel*, one size, in packets of six .. .. per pkt.

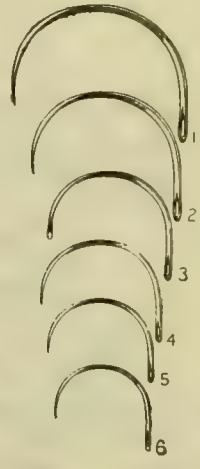
S4339 KALT'S SUTURE NEEDLES, **Corneal,** *carbon steel*, one size, in packets of six, per pkt.



S4340



S4341



S4342

S4340 KELLY'S SUTURE NEEDLES, **Intestinal,** *carbon steel*, seven sizes: 1/0 to 6, in packets of six of a size .. .. per pkt.

S4340A Ditto .. *stainless steel* .. .. per pkt.

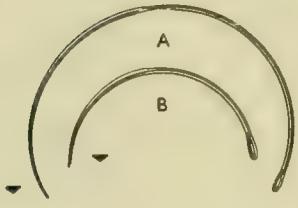
S4341 Ditto .. **oblique,** four sizes: 1 to 4 .. .. per pkt.

S4342 Ditto .. **Gynaecological,** six sizes: 1 to 6 .. .. .. per pkt.

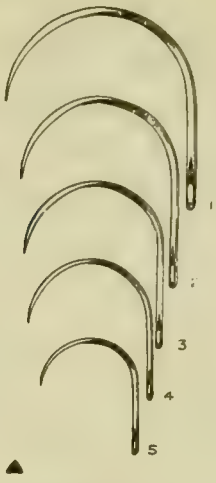
SUTURE NEEDLES



S4343



S4344



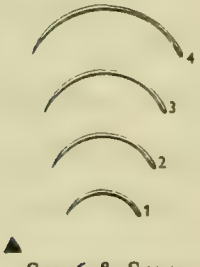
S4345

Cat. No.

S4343 SUTURE NEEDLES, **Kidney, half-circle,** *carbon steel,* one size, in packets of six .. .. per pkt.

†S4344 KOCHER'S SUTURE NEEDLES, *carbon steel,* two sizes: A and B, in packets of six of a size .. .. per pkt.

S4345 KOENIG'S SUTURE NEEDLES, *carbon steel,* five sizes: 1 to 5, in packets of six of a size .. .. per pkt.



S4346 & S4349



S4347 & S4350

S4346 LANE'S SUTURE NEEDLES, **curved,** *carbon steel,* four sizes: 1 to 4, in packets of six of a size .. .. per pkt.

S4347 Ditto .. **half-circle** .. .. per pkt.

†*S4348 Ditto .. **straight** .. .. per pkt.

S4349 LANE'S SUTURE NEEDLES, **curved,** *stainless steel,* four sizes: 1 to 4, in packets of six of a size .. .. per pkt.

S4350 Ditto .. **half-circle** .. .. per pkt.

†*Stainless steel on request.*

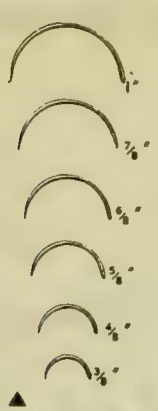
**Not illustrated*

SURGICAL SUNDRIES

SUTURE NEEDLES



S4351 & S4354



S4352 & S4355



S4356

Cat. No.

S4351 LANE'S SUTURE NEEDLES, **Cleft Palate, curved,** *carbon steel,* six sizes: $\frac{3}{8}$ in. to 1 in., in packets of six of a size .. .. per pkt.

S4352 Ditto .. **half-circle** .. .. per pkt.

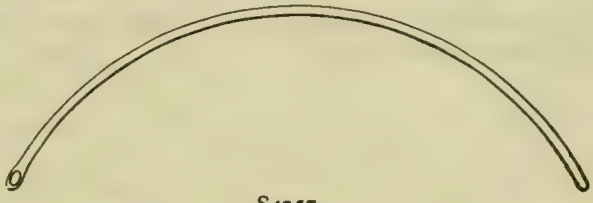
*S4353 Ditto .. **straight** .. .. per pkt.

S4354 LANE'S SUTURE NEEDLES, **Cleft Palate, curved,** *stainless steel,* six sizes: $\frac{3}{8}$ in. to 1 in., in packets of six of a size .. .. per pkt.

S4355 Ditto .. **half-circle** .. .. per pkt.

S4355A Ditto .. **straight** .. .. per pkt.

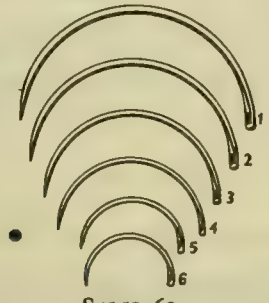
S4356 OLDFIELD'S SUTURE NEEDLES, **Cleft Palate,** *carbon steel,* one size, in packets of six .. .. per pkt.



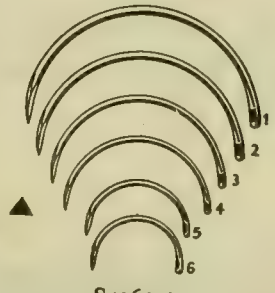
S4357

S4357 SUTURE NEEDLES, **Liver, curved,** *carbon steel,* three sizes: $3\frac{1}{2}$ in., $3\frac{3}{4}$ in. and 4 in., in packets of six of a size .. .. per pkt.

*S4358 Ditto .. **straight** .. .. per pkt.



S4359–60



S4361–2

S4359 MAYO'S SUTURE NEEDLES **for Catgut, round points,** square eye, *carbon steel,* six sizes: 1 to 6, in packets of six of a size .. .. .. per pkt.

S4360 Ditto .. *stainless steel* .. .. per pkt.

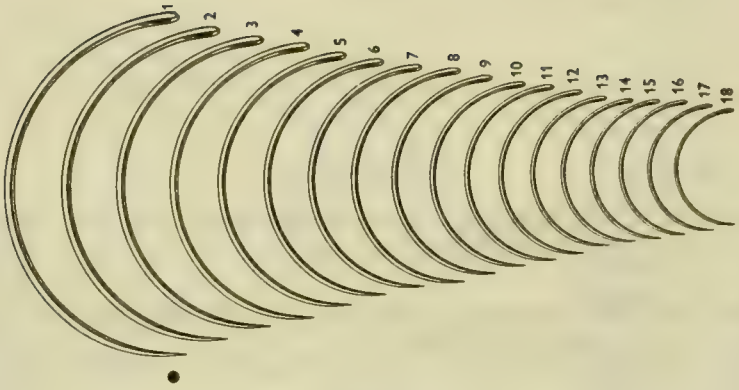
S4361 MAYO'S SUTURE NEEDLES **for Catgut, trocar points,** square eye, *carbon steel,* six sizes: 1 to 6, in packets of six of a size .. .. .. per pkt.

S4362 Ditto .. *stainless steel* .. .. per pkt.

**Not illustrated*

SURGICAL SUNDRIES

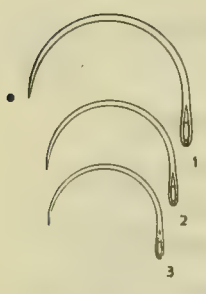
SUTURE NEEDLES



S4363

Cat. No.

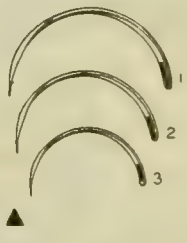
†S4363 MAYO'S SUTURE NEEDLES, **standard,** flat at head, *carbon steel,* eighteen sizes: 1 to 18, in packets of six of a size .. .. per pkt.



S4364



S4365



S4366

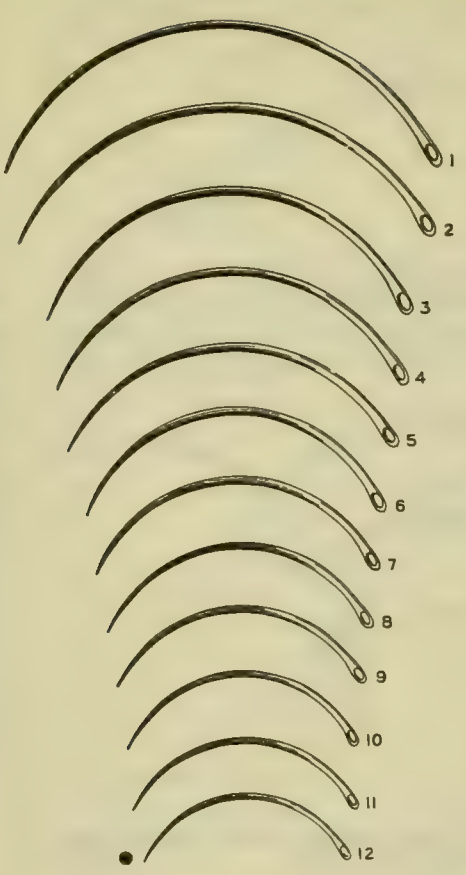
†S4364 MAYO'S SUTURE NEEDLES, **Intestinal, fish-hook shape,** *carbon steel,* three sizes: 1 to 3, in packets of six of a size .. .. per pkt.

†S4365 SUTURE NEEDLES, **Mouth, slender,** *carbon steel,* four sizes: 1 to 4, in packets of six of a size .. .. per pkt.

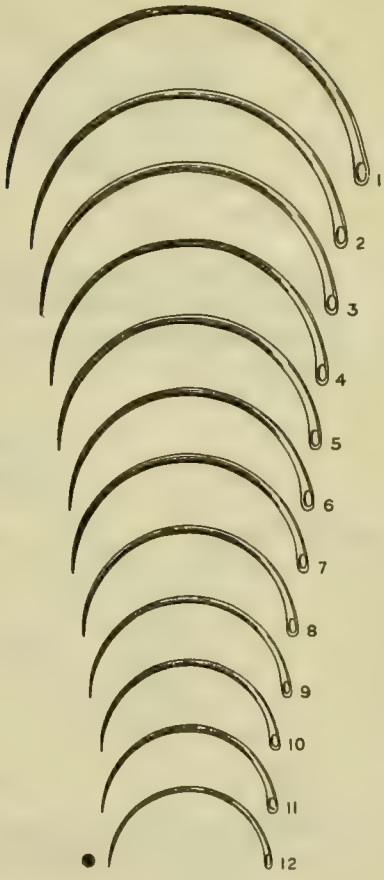
†S4366 MURPHY'S SUTURE NEEDLES, **Trachelorrhaphy,** *carbon steel,* three sizes: 1 to 3, in packets of six of a size .. .. per pkt.

†*Stainless steel on request.*

SUTURE NEEDLES



S4367

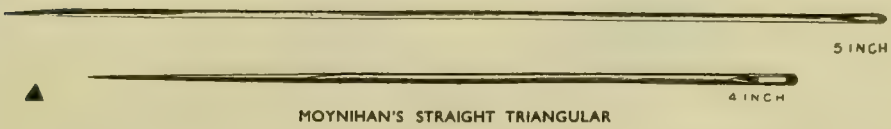


S4368

Cat. No.

S4367 MORISON'S SUTURE NEEDLES, **curved,** *carbon steel,* twelve sizes: 1 to 12, in packets of six of a size .. .. per pkt.

S4368 MORISON'S SUTURE NEEDLES, **half-circle,** *carbon steel,* twelve sizes: 1 to 12, in packets of six of a size .. .. per pkt.

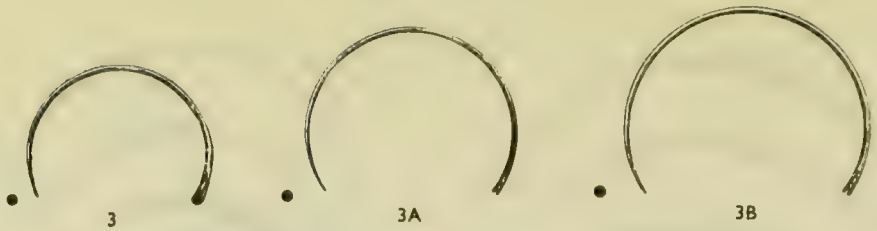


MOYNIHAN'S STRAIGHT TRIANGULAR

S4369

S4369 MOYNIHAN'S SUTURE NEEDLES, **straight,** triangular points, *carbon steel,* two sizes: 4 in. and 5 in., in packets of six of a size .. .. .. per pkt.

SUTURE NEEDLES

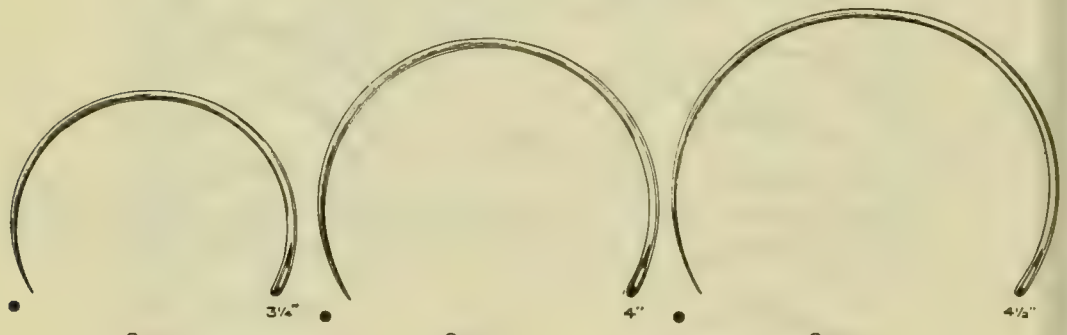


S4370 S4370 S4370

Cat. No.

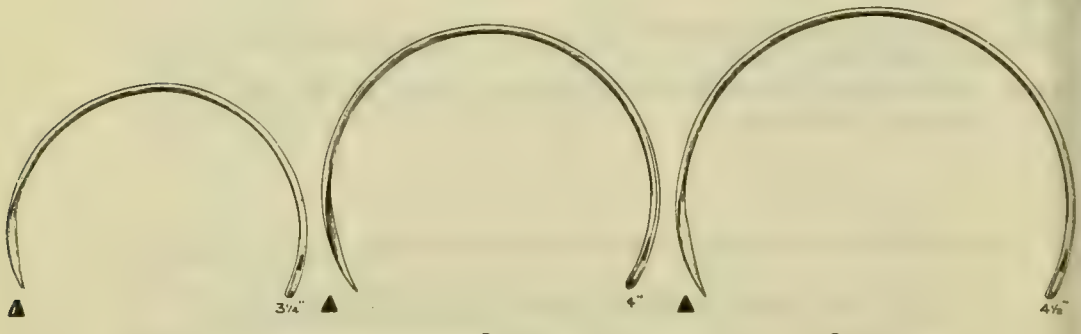
S4370 MOYNIHAN'S SUTURE NEEDLES, **Intestinal, spring eye, round bodied,** $\frac{5}{8}$ **circle,** *carbon steel,* three sizes: 3, 3A and 3B, in packets of six of a size, per pkt.

*S4371 Ditto .. **ordinary eye** .. .. per pkt.



S4372 S4372 S4372

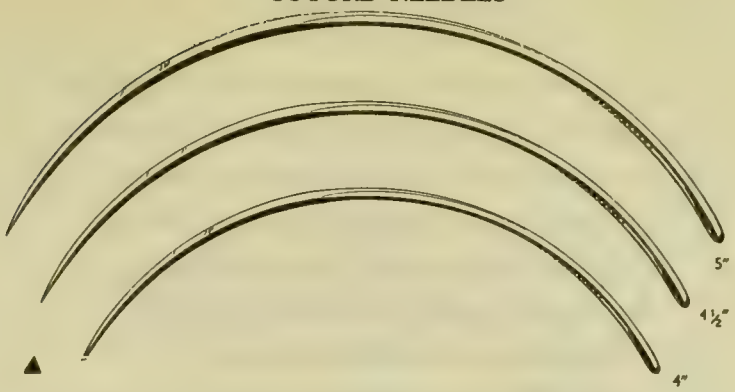
S4372 MOYNIHAN'S SUTURE NEEDLES, **round bodied,** $\frac{5}{8}$ **circle,** *carbon steel,* three sizes: $3\frac{1}{4}$ in., 4 in. and $4\frac{1}{2}$ in., in packets of six of a size .. .. per pkt.



S4373 S4373 S4373

S4373 MOYNIHAN'S SUTURE NEEDLES, **round bodied, lance points,** $\frac{5}{8}$ **circle,** *carbon steel,* three sizes: $3\frac{1}{4}$ in., 4 in. and $4\frac{1}{2}$ in., in packets of six of a size.. per pkt.

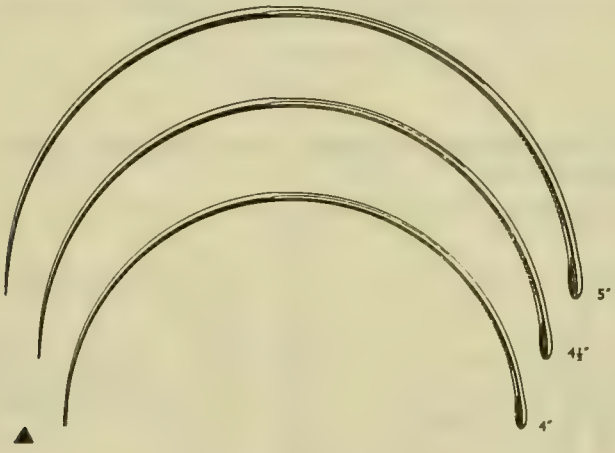
**Not illustrated*



Cat. No. S4374

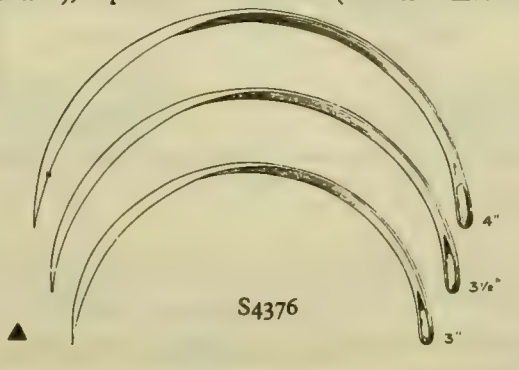
†S4374 SUTURE NEEDLES, POST MORTEM, **curved,** *carbon steel,* seven sizes: 3 in. to 6 in. (in half inches), in packets of six of a size (three sizes illustrated) .. per pkt.

†*S4374A Ditto .. **half-curved** .. .. per pkt.



S4375

†S4375 SUTURE NEEDLES, POST MORTEM, **half-circle,** *carbon steel,* seven sizes: 3 in. to 6 in. (in half inches), in packets of six of a size (three sizes illustrated) .. per pkt.



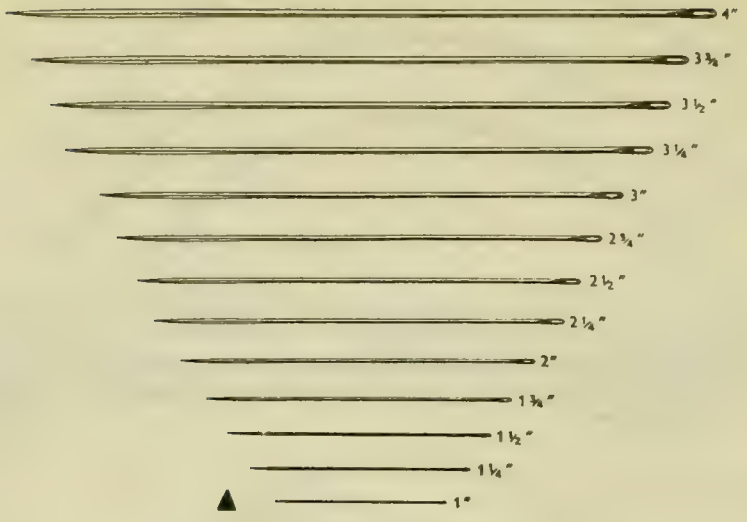
S4376

†S4376 ROTUNDA HOSPITAL PATTERN SUTURE NEEDLES, **Perineum,** *carbon steel,* three sizes: 3 in. to 4 in., in packets of six of a size .. .. per pkt.

†*Stainless steel on request, sizes 3 in. to 5 in.* **Not illustrated*

SURGICAL SUNDRIES

SUTURE NEEDLES



S4377–8

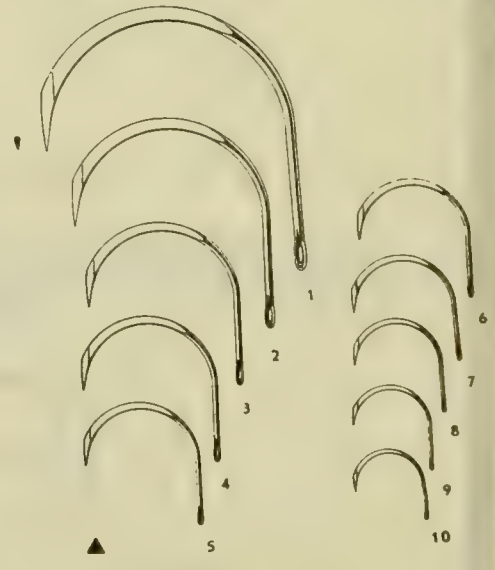
Cat. No.

S4377 SIMS' SUTURE NEEDLES, **Abdominal**, *carbon steel*, thirteen sizes: 1 to 4 in., in packets of six of a size .. .. per pkt.

S4378 Ditto .. *stainless steel* .. .. per pkt.



S4379



S4380

†S4379 SYMONDS' SUTURE NEEDLES, round bodied, *carbon steel*, ten sizes: 1 to 10, in packets of six of a size .. .. per pkt.

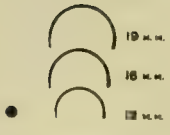
†S4380 SYMONDS-HAGEDORN'S REVERSED SUTURE NEEDLES, *carbon steel*, ten sizes: 1 to 10, in packets of six of a size .. .. per pkt.

†*Stainless steel on request.*

SUTURE NEEDLES



S4381



S4382



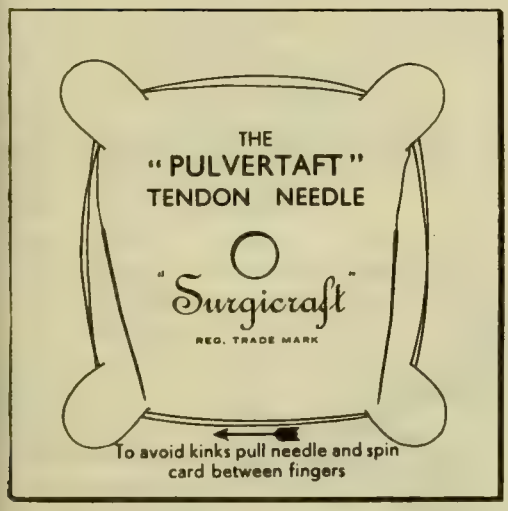
S4383

Cat. No.

S4381 SUTURE NEEDLES, **Tonsil,** *carbon steel,* one size in packets of six, per pkt.

S4382 SUTURE NEEDLES, **Vessel, extra curved,** *carbon steel,* three sizes: 12 mm. 16 mm. and 19 mm., in packets of six of a size .. .. .. per pkt.

S4383 WORTH'S SUTURE NEEDLES, **Advancement,** *carbon steel,* one size, in packets of six .. .. per pkt.



S4384



S4386

S4384 PULVERTAFT'S TENDON SUTURE, consisting of an 18 in. length of stainless steel wire, 40 B.W.G., swaged-on to a No. 18 stainless steel suture needle at each end, *straight,* triangular point, mounted single on card .. .. per card

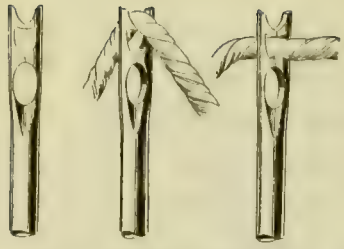
S4385 Ditto .. in card boxes containing twelve cards .. .. .. per box

S4386 Ditto .. as fig. S4384 but with *curved* needles mounted single on card, per card

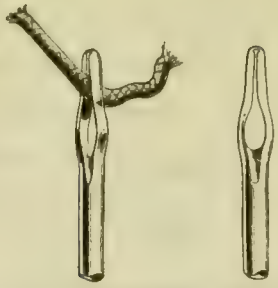
S4387 Ditto .. in boxes containing twelve cards .. .. .. per box

SURGICAL SUNDRIES

SUTURE NEEDLES



SPRING EYE

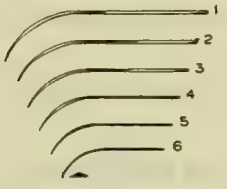


PATERSON'S EYE

SUTURE NEEDLES, can be supplied with SPRING EYE, *carbon steel only*, extra cost per pkt.

SUTURE NEEDLES, can be supplied with PATERSON'S EYE, *carbon steel and stainless steel* .. .. extra cost per pkt.

SUTURE NEEDLES, can be supplied GOLD PLATED, *carbon steel only*, extra cost per pkt.



S4388

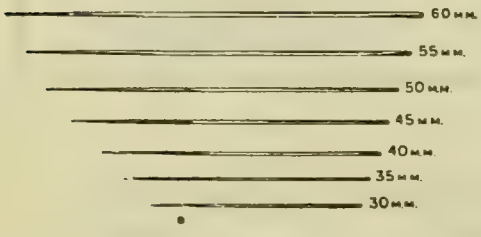


S4389

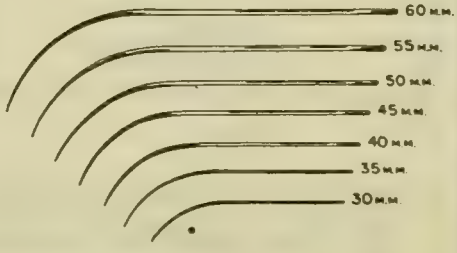
Cat. No.

S4388 EYELESS SUTURE NEEDLES, Eye, **half-curved**, *carbon steel*, six sizes: 1 to 6, in packets of six of a size .. .. per pkt.

S4389 Ditto .. **curved** .. .. per pkt.



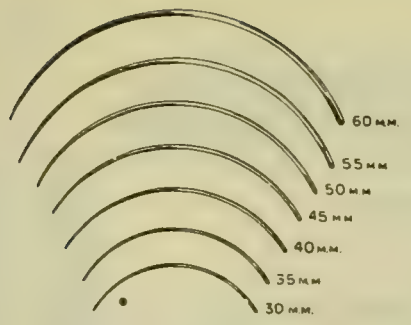
S4390



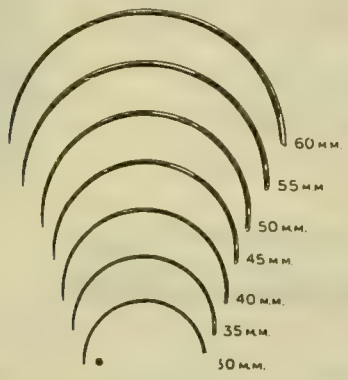
S4391

S4390 EYELESS SUTURE NEEDLES, **Intestinal, straight**, *carbon steel*, seven sizes: 30 mm. to 60 mm. in packets of six of a size .. .. .. per pkt.

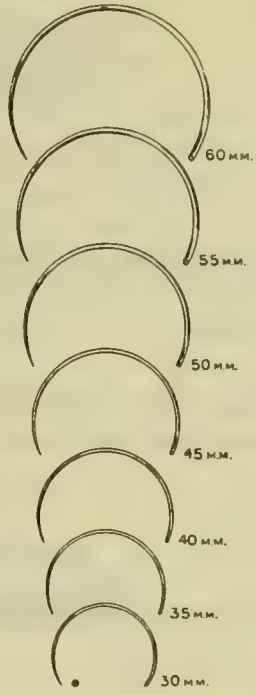
S4391 Ditto .. **half-curved** .. .. per pkt.



S4392



S4393



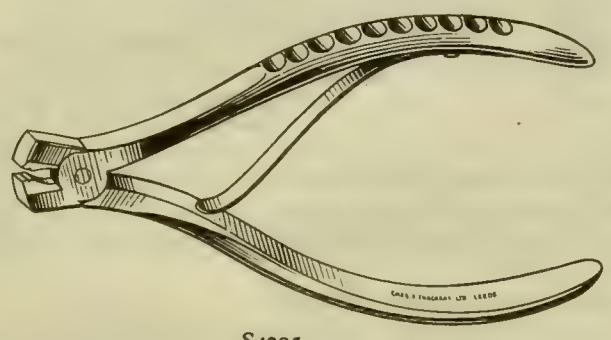
S4394

Cat. No.

S4392 EYELESS SUTURE NEEDLES, **Intestinal, curved,** *carbon steel,* seven sizes: 30 mm. to 60 mm. in packets of six of a size .. .. .. per pkt.

S4393 Ditto .. **half-circle** .. .. per pkt.

S4394 Ditto .. **⅝ circle** .. .. per pkt.

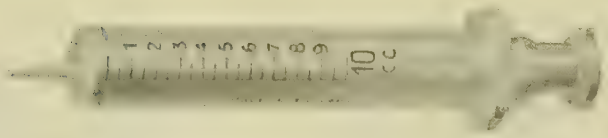


S4395

S4395 CLAMPING FORCEPS, with grooved jaws for making eyeless needle sutures, stainless steel .. .. each

METHOD OF PREPARING EYELESS NEEDLE SUTURES:

The grooved head of the needle is held gently in the jaws of the clamping forceps; the end of the strand of suture material is then placed in the groove and the forceps clamped.



S4396

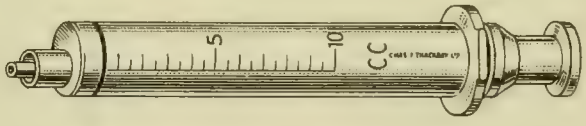
Cat. No.

S4396 "ATLAS" NYLON SYRINGE, British made, by the original S.E.S.I. process, coloured graduations, with choice of either record or luer fitting side nozzle.

Capacity: .. 3 ml. .. 5 ml. .. 10 ml. .. 20 ml.

S4396A Ditto .. 2 ml. *Record* or *Luer centre* nozzle.. .. .. .. each

S4397 Spare Piston Washers for all "Atlas" Nylon Syringes .. .. per doz.



S4397B

S4397A "ATLAS" NYLON SYRINGE, with centre *Luer locking* nozzle fitting:
Capacity: .. 2 ml. 3 ml. 5 ml. 10 ml. 20 ml.

S4397B Ditto .. with *side Luer locking* nozzle fitting:
Capacity: .. 5 ml. 10 ml. 20 ml.

Features:
●Unbreakable. ●Leak-proof nozzles and pistons. ●Graduations accurately engraved in *colour*. ●Barrel and nozzle in one piece. ●Replaceable piston washers. ●Receptacle for spare needles in piston. ●Barrels and pistons are interchangeable. ●Completely hygienic and easy to clean. ●Absence of soldered parts eliminates crevices. ●Does not affect *p*H of solutions. ●Cleaning as for glass syringes. ●Sterilization by boiling or autoclaving at 18 lb. steam pressure (120°C).

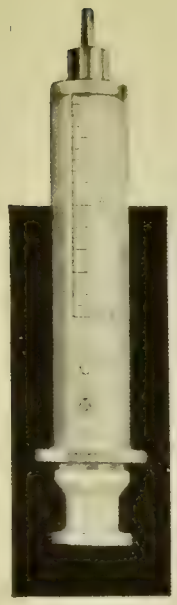
Pistons and barrels should be *separated* before boiling or autoclaving. Petroleum jelly or liquid paraffin smeared lightly on the piston will ensure easy action and prevent deposits being formed when hard water is used.

Absence of solder crevices assists sterilization.

NOTE.—Prolonged immersion of Nylon Syringes in Phenol (Carbolic Acid) and its derivatives is harmful. It should be further noted that sterilization of syringes by chemical means is condemned by the British Medical Council Research Memorandum No. 15 ("The Sterilization, Use and Care of Hypodermic Syringes").

METHOD OF USE: as for glass syringes. For intravenous use the piston should be withdrawn slightly to ensure correct insertion into vein. Measurements should be taken from the piston washer.

Free replacement is assured if a syringe is returned with justified complaint of faulty manufacture.



795–6461

"ATLAS" NYLON SYRINGE WITH METAL NOZZLE
(Originally introduced for Veterinary use)

Robust, long wearing and UNBREAKABLE. The plated metal nozzle gives maximum strength and rigidity where most required, reducing the risk of accidental injury to both user and subject.

Readily sterilized by boiling or autoclaving, easily cleaned and most convenient to handle.

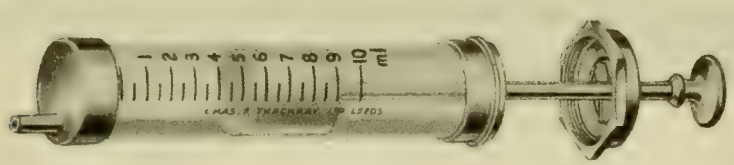
Reasonable in cost, its longer serviceable life makes it a most economical syringe to use.

Fully descriptive leaflet sent on request.

Cat. No.

795–6461 "ATLAS" NYLON SYRINGE, interchangeable, with central metal nozzle, Record or Luer fitting: 2 cc., 3 cc., 5 cc., 10 cc., 20 cc., 50 cc.

*795–6462 Ditto .. side nozzle: 5 cc., 10 cc., 20 cc.



S4409A

*S4402 RECORD TYPE SYRINGE, **Hospital Quality**, with heat-resisting glass barrel (sterilizable by boiling or autoclaving up to 120°C.), plated metal piston and mounts, naked, †choice of either *Record* or *Luer* fitting *centre* nozzle:
1 ml./20 min., 2 ml./40 min., 5 ml., 10 ml., 20 ml., 30 ml., 50 ml., 100 ml.

*S4403 Ditto .. side nozzle: 5 ml., 10 ml., 20 ml., 30 ml., 50 ml., 100 ml.
REPAIR/EXCHANGE SERVICE AVAILABLE

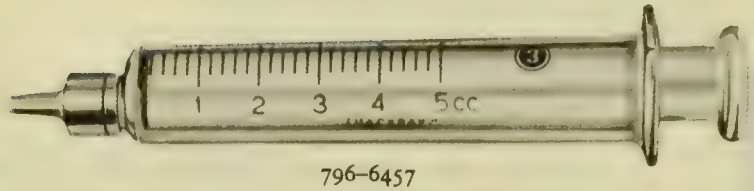
*S4408A RECORD TYPE SYRINGE, interchangeable, with ceramic piston, naked, choice of either *Record* or *Luer* fitting, *centre* nozzle:
1 ml./20 min., 2 ml./40 min., 5 ml., 10 ml., 20 ml.

S4409A Ditto .. side nozzle: 5 ml., 10 ml., 20 ml.

**Not illustrated*

SURGICAL SUNDRIES

SYRINGES AND NEEDLES

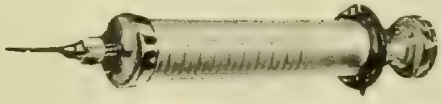


796–6457

Cat. No.

796–6457 HYPODERMIC SYRINGE, interchangeable, glass plunger and barrel with metal *centre* nozzle, *Record* or *Luer* fitting. Capacity: 2 cc., 5 cc., 10 cc., 20 cc.

796–6458 Ditto, side nozzle. Capacity: 5 cc., 10 cc., 20 cc.



S4410

S4410 "VIM" BRAND SYRINGE, with heat-resisting glass barrel and piston (sterilizable by boiling, autoclaving or hot air), plated metal nozzle, naked, †choice of either *Record* or *Luer* fitting *centre* nozzle:

Capacity	1 ml./20 min.	2 ml./40 min.	5 ml.	10 ml.	20 ml.

S4411 Ditto .. *side* nozzle 5 ml. .. 10 ml. .. 20 ml.

*S4412 "VIM" BRAND Silver Seal SYRINGE, with heat-resisting glass barrel and piston (sterilizable by boiling, autoclaving or hot air), plated *metal nozzle, inset into barrel without cement*, naked, †choice of either *Record* or *Luer* fitting *centre* nozzle:

Capacity ..	1 ml./20 min. ..	2 ml./40 min. ..	5 ml.

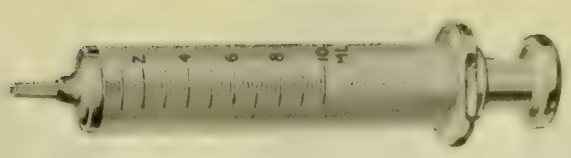
Capacity: .. .. 10 ml. .. 20 ml.

*S4413 Ditto .. *side* nozzle . 5 ml. .. 10 ml. .. 20 ml.

REPAIR/EXCHANGE SERVICE AVAILABLE *for* S4410 *and* S4411.

†*Record fitting supplied unless otherwise stated.* **Not illustrated*

SYRINGES AND NEEDLES



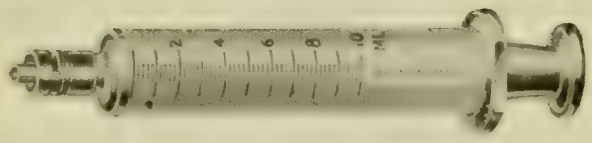
S4414

Cat. No.

S4414 ALL-GLASS SYRINGE, heat-resisting (sterilizable by boiling, autoclaving or hot air), naked, †choice of either *Record* or *Luer* fitting *centre* nozzle:

	Capacity	..	1 ml./20 min.	..	2 ml./40 min.	..	5 ml.
	Capacity	..	..	..	10 ml.	..	20 ml.
S4415	Ditto .. *side* nozzle		5 ml.	..	10 ml.	..	20 ml.

†S4415A As S4414–5 but with interchangeable pistons and barrels.



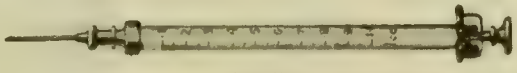
S4416

S4416 LUER-LOCKING SYRINGE, with heat-resisting glass barrel and piston (sterilizable by boiling, autoclaving or hot air), plated metal *Luer-locking* nozzle, naked, *centre* nozzle:

	Capacity	..	1 ml./20 min.	..	2 ml./40 min.	..	5 ml.
	Capacity	..	10 ml.	..	20 ml.	..	† 50 ml.
S4417	Ditto .. *side* nozzle		5 ml.	..	10 ml.	..	20 ml. .. 50 ml.

†S4417A As S4416–7 but with interchangeable pistons and barrels (except 50 ml.), each

†*Used for angiocardiography, with wide aperture nozzle for use with 12 B.W.G. cannula*



S4418

S4418 RECORD TYPE TUBERCULIN SYRINGE, heat-resisting glass barrel, metal piston and chromium plated mounts, naked, with †choice of either *Record* or *Luer* fitting *centre* nozzle: 1 ml. calibrated in 1/100ths .. .. .. each

*S4419 Ditto .. all-glass .. .. each

*S4420 Ditto .. glass barrel and piston with metal nozzle .. .. each

REPAIR/EXCHANGE SERVICE AVAILABLE
except for interchangeable and all-glass types.

†*Record fitting supplied unless otherwise stated.* **Not illustrated*

SURGICAL SUNDRIES

SYRINGES AND NEEDLES



S4421

Cat. No.

S4421 RECORD TYPE INSULIN SYRINGE, heat-resisting glass barrel, metal piston and chromium plated mount, naked, with †choice of either *Record* or *Luer* fitting *centre* nozzle:

Capacity .. .. 1 ml./20 units .. 2 ml./40 units

*S4422 Ditto .. British Standards Specification (1619) Pattern, with widely spaced calibrations to facilitate exact reading by patients with poor eyesight: 20 sub-divisions to each millilitre; naked, *Luer* fitting *centre* nozzle:

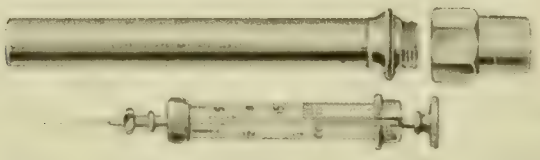
Capacity .. .. 1 ml. .. 1·5 ml.

*S4423 "VIM" BRAND INSULIN SYRINGE, all-glass barrel and piston, chromium plated base and nozzle, naked, with †choice of either *Record* or *Luer* fitting *centre* nozzle:

Capacity .. .. 1 ml./20 units 2 ml./40 units

*S4424 Ditto .. 1 ml. triple graduations, reading: 20, 40 and 80 units on one syringe, each

REPAIR/EXCHANGE SERVICE AVAILABLE *for* S4421–4.



S4425

S4425 RECORD TYPE SYRINGE, specially made for case, heat-resisting glass barrel, metal piston and nickel plated mounts, Record fitting nozzle, complete with stainless steel needle, in screw fitting spirit-proof case, plated:

Capacity .. 1 ml./20 min. .. 2 ml./40 min. .. 5 ml.

Capacity .. .. 10 ml. .. 20 ml.

*S4426 Ditto .. but with Insulin Syringe:

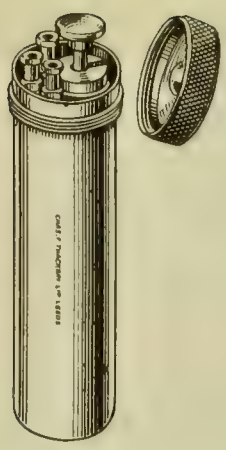
Capacity .. .. 1 ml./20 units .. 2 ml./40 units

*S4427 METAL BASE, plated, to allow the above spirit-proof cases to stand upright (please specify size of syringe case when ordering) .. .. each

†Record fitting supplied unless otherwise stated. **Not illustrated*

SURGICAL SUNDRIES

SYRINGES AND NEEDLES



S4428



S4430

Cat. No.

S4428 SQUAT PATTERN SYRINGE OUTFIT, chromium plated spirit-proof case with screw fitting cap, complete with three assorted stainless steel needles and Record Type Syringe: Capacity: .. 1 ml./20 min. .. .. .. 2 ml./40 min.

*S4429 Ditto .. with 20 units syringe .. .. .. 40 units syringe

*S4430 Ditto .. with 5 ml. syringe .. 10 ml. syringe .. 20 ml. syringe (*four* needles supplied)

S4431 Squat pattern Case only for Record Type, C.F.T. Brand and other types of Syringes: Capacity .. .. 1 ml. .. 2 ml. .. 5 ml.

Capacity .. .. 10 ml. .. 20 ml.

S4432 SYRINGE SET, consisting of: one each 1 ml., 2 ml., 5 ml., 10 ml. and 20 ml. Record Type Syringes with ten assorted stainless steel needles, in chromium plated spirit-proof case with lift-out rack and screw fitting cap .. complete

S4432A Case only, to accommodate Record Type or C.F.T. Brand Syringes (pages S795-6), each



S4435

Cat. No.

*S4433 PORTABLE SYRINGE OUTFIT, white plastic spirit-proof case, cap secured by fast-running thread, complete with 1 ml./20 min. or 20 units Record Type Syringe and *six* assorted stainless steel needles, each

*S4434 Ditto .. with 2 ml./40 min. syringe with six needles .. .. .. each

S4435 Ditto .. with 1 ml. B.S.S.1619 Insulin Syringe and three needles (as illustrated), each

*S4437 Case only, white plastic, for 1 ml. or 2 ml. Record Type or C.F.T. Brand Syringe (pages S795–6) and *six* needles .. each

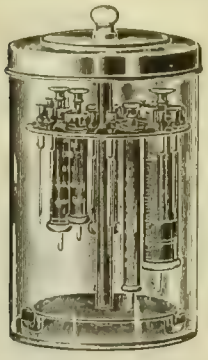
*S4438 Ditto .. for 1 ml. B.S.S.1619 Insulin Syringe and *three* needles .. each

REPAIR/EXCHANGE SERVICE AVAILABLE

**Not illustrated*

SURGICAL SUNDRIES

SYRINGES AND NEEDLES



S4439

Cat. No.

S4439 SYRINGE JAR, for keeping syringes in solution, glass, chromium plated, air-lock lid fitted with inner rubber flange. Size: 4 in. diameter by 6 in. deep, complete with metal rack (with extending rod to elevate and secure syringes above the fluid) to hold: 1 ml., 2 ml., 5 ml., 10 ml. and 20 ml. Record Type Syringes and ten needles (*without* syringes or needles) .. .. each

S4440 Spare Glass Jars .. .. each

Other syringes *are listed in the index under their respective surgical uses.*

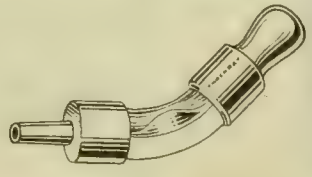


S4441

S4441 UPCOTT'S SYRINGE HOLDER, chromium plated, four sizes, to take: 2 ml., 5 ml., 10 ml and 20 ml. *central* nozzle syringes .. .. .. each

*S4442 Ditto .. with cranked swinging lock, to take *side* nozzle syringes: 5 ml., 10 ml. and 20 ml. each .. .. each

The late Mr. H. Upcott designed this Syringe Holder to convert a Record type syringe into a pressure type. Finger grips are provided and a simple swinging lock for the needle so made that the greater the pressure on the plunger the more securely is the needle held to the nozzle of the needle.



S4443

S4443 ADAPTOR, for varicose vein injections, glass, curved, with choice of either *Record* or *Luer* fitting metal mounts (*for use with* 3 *ml. syringe, fig.* S4408) .. each

**Not illustrated*

HYPODERMIC, INTRAMUSCULAR AND EXPLORING NEEDLES

SIZES OF NEEDLES

Hypodermic needles are made in all sizes ranging from ·35 mm. to 4·06 mm. diameter. The length measurement of the needle does not include the mount, or the part of the needle which is inserted in the mount.

In England the only generally recognised range of sizes is the Hypodermic, Intramuscular and Exploring range which consists of 11 hypodermic and 8 exploring standard sizes, of which we carry large stocks in all brands. For sizes not incorporated, the most usual method of expressing size is to give the diameter of the blade in decimals of a millimetre, or in the appropriate wire gauge and the length in either inches and fractions, or millimetres. Almost all methods of measurement are used from time to time, and for convenience we give below a table indicating equivalents. In addition to the standard hypodermic, intramuscular and exploring there are a number of British and Continental Houses using their own ranges.

SPECIAL NOTE.—It is important not to confuse the hypodermic range numbers with the gauge numbers, the former refer to a complete diameter and length measurement (see page S803). The latter is a measure of diameter only (see TABLE BELOW).

Table for converting Metric to English Measurements.

DIAMETERS.				LENGTHS.			
Metric.	Gauge.	Metric.	Gauge.	Inches.	Millimetres.	Inches.	Millimetres.
.35m/m (3½/10)	28	1.10m/m (11/10)	19	¼	6.35	1	25.40
.40m/m (4/10)	27	1.25m/m (12/10)	18	5/16	7.94	1¼	31.75
.45m/m (4½/10)	26	1.45m/m (14/10)	17	3/8	9.53	1½	38.10
.50m/m (5/10)	25	1.65m/m (16/10)	16	7/16	11.11	1¾	44.45
.55m/m (5½/10)	24	1.80m/m (18/10)	15	½	12.70	2	50.80
.60m/m (6/10)	23	2.10m/m (21/10)	14	9/16	14.29	2¼	57.15
.65m/m (6½/10)	23	2.40m/m (24/10)	13	5/8	15.88	2½	63.50
.70m/m (7/10)	22	2.80m/m (28/10)	12	11/16	17.46	2¾	69.85
.75m/m (7½/10)	21	3.00m/m (30/10)	11	¾	19.05	3	76.20
.80m/m (8/10)	21	3.25m/m (32/10)	10	13/16	20.64	3¼	82.55
.90m/m (9/10)	20	3.65m/m (36/10)	9	7/8	22.23	3½	88.90
1.00m/m (10/10)	19	4.06m/m (40/10)	8	15/16	23.81	3¾	95.25

NEEDLE BEVELS



Long Point



Short Point

Unless specified, long point will be supplied.

DIAPOINT NEEDLES: page S802-3

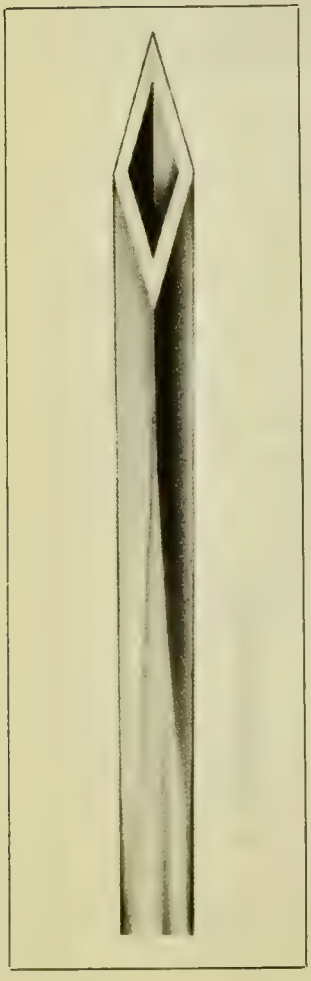
SURGICAL SUNDRIES
SYRINGES AND NEEDLES

TRADE MARK
DIAPOINT
HYPODERMIC NEEDLES

(THACKRAY)

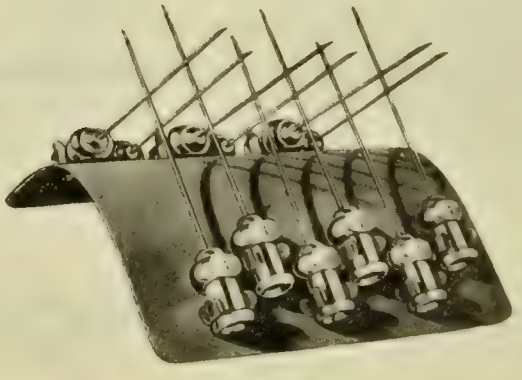
Cat. No.		
S4445	DIAPOINT HYPODERMIC NEEDLES, stainless steel, with †choice of either *Record* or *Luer-locking* mounts, sizes: 1, 2, 12, 14, 15, 16, 17, 18, 19, 20 and intradermal: 26 B.W.G. by $\frac{1}{2}$ in. .. .. per doz.	
S4446	Ditto .. INTRAMUSCULAR AND EXPLORING:	
	$1\frac{1}{2}$ in. by gauges: 17, 18, 19 and 20 B.W.G. .. .. per doz.	
	$1\frac{5}{8}$ in. by 20 B.W.G. .. .. per doz.	
	2 in. by gauges: 17, 18, 19, 20, 21, 22 and 23 B.W.G. .. .. per doz.	
	$2\frac{1}{2}$ in. by gauges: 17, 18, 19 and 20 B.W.G. .. .. per doz.	
	3 in. by gauges: 17, 18, 19 and 20 B.W.G. .. .. per doz.	

Other lengths and gauges to order.
†Record fitting supplied unless otherwise stated.



Diapoint Needles present a new advance in hypodermic needle design. After long trials they have been shown to possess the following advantages:

- Easier penetration.
- Greater strength and durability.
- Geometry of the needle automatically ensures the optimum puncturing point, thus providing less painful injections.
- Highly resistant to bending and breaking: suitable for tough tissues.
- The methods used in pointing the needle eliminate rough edges and slivers. The points are less likely to "hook" after use.



Packed in boxes of a dozen of a size, held by metal clips on flexible plastic trays for easy removal. Cellophane wrapped.

SURGICAL SUNDRIES

SYRINGES AND NEEDLES

HYPODERMIC RANGE



Intradermal: 26 Gauge x ½ In. (.45 x 12.5 m/m) short point



No. 20 : 26 Gauge x 5/8 In. (.45 x 15.5 m/m)



No. 19 : 26 Gauge x 11/16 In. (.45 x 17.5 m/m)



No. 18 : 26 Gauge x 3/4 In. (.45 x 19 m/m)



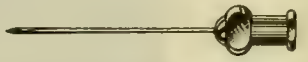
No. 17 : 25 Gauge x 15/16 In. (.50 x 23.5 m/m)



No. 16 : 24 Gauge x 1 In. (.55 x 25 m/m)



No. 15 : 23 Gauge x 1 In. (.60 x 25 m/m)



No. 14 : 23 Gauge x 1 3/16 In. (.60 x 30 m/m)



No. 12 : 23 Gauge x 1 3/16 In. (.65 x 30 m/m)

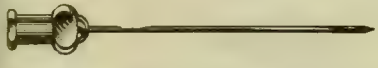


No. 2 : 22 Gauge x 1 5/16 In. (.70 x 33 m/m)



No. 1 : 21 Gauge x 1 1/2 In. (.80 x 38 m/m)

INTRAMUSCULAR and EXPLORING RANGE



. . . . . 20 Gauge x 1 5/8 In. (.90 x 41.5 m/m)



. . . . . 23 Gauge x 2 In. (.65 x 50.5 m/m)



. . . . . 22 Gauge x 2 In. (.70 x 50.5 m/m)



. . . . . 21 Gauge x 2 In. (.80 x 50.5 m/m)



. . . . . 20 Gauge x 2 In. (.90 x 50.5 m/m)



. . . . . 19 Gauge x 2 In. (1.10 x 50.5 m/m)



. . . . . 18 Gauge x 2 In. (1.25 x 50.5 m/m)



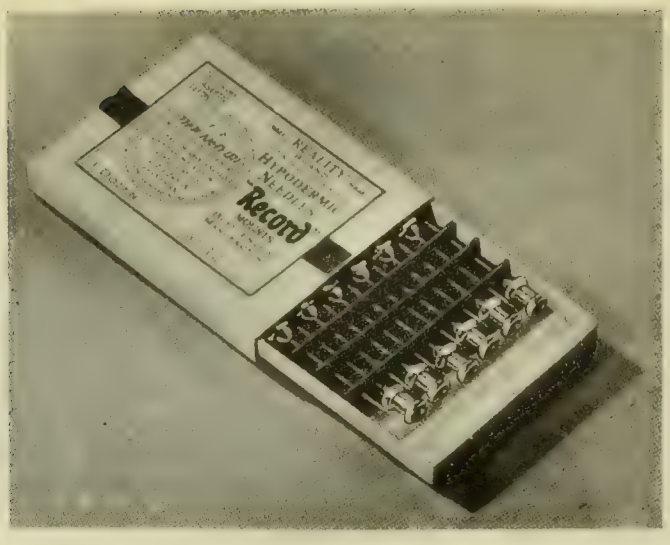
. . . 17 Gauge x 2 1/2 In. (1.45 x 63 m/m)

Illustrations are of Diapoint Needles, but sizes apply to other types: page S804.

Other lengths and gauges to order.

SURGICAL SUNDRIES

SYRINGES AND NEEDLES



Stock Sizes for Hypodermic Needles:

No. 1: 21 B.W.G. by $1\frac{1}{2}$ in.		No. 16: 24 B.W.G. by 1 in.	
No. 2: 22 „ „ $1\frac{5}{16}$ in.		No. 17: 25 „ „ $1\frac{5}{16}$ in.	
No. 12: 23 „ „ $1\frac{3}{10}$ in.		No. 18: 26 „ „ $\frac{3}{4}$ in.	
No. 14: 23 „ „ $1\frac{3}{16}$ in.		No. 19: 26 „ „ $\frac{11}{16}$ in.	
No. 15: 23 „ „ 1 in.		No. 20: 26 „ „ $\frac{5}{8}$ in.	

Intradermal: 26 B.W.G. by $\frac{1}{2}$ in., short point

Stock Sizes for Intramuscular and Exploring Needles:

$1\frac{1}{2}$ in. by gauges: 17, 18, 19 and 20 B.W.G.
‡$1\frac{5}{8}$ in. by 20 B.W.G.
2 in. by gauges: 16, 17, 18, 19, 20, 21, 22 and 23 B.W.G.
$2\frac{1}{2}$ in. by gauges: 16, 17, 18, 19 and 20 B.W.G.
‡3 in. by gauges: 16, 17, 18, 19 and 20 B.W.G.
‡$3\frac{1}{2}$ in. by gauges: 15, 16, 17, 18, 19 and 20 B.W.G.
‡4 in. by gauges: 13, 14, 15, 16, 17, 18, 19 and 20 B.W.G.

Other lengths and gauges to order.

Cat. No.

S4447 "REALITY" BRAND HYPODERMIC NEEDLES, **Best Quality, hand made,** stainless steel, with †choice of either *Record* or *Luer-locking* mounts, sizes: 1 to 20 and intradermal: 26 B.W.G. by $\frac{1}{2}$ in., as above stock sizes. in boxes of a dozen of a size, per doz.

S4448 Ditto .. INTRAMUSCULAR AND EXPLORING NEEDLES, as above stock sizes .. .. per doz.

S4449 C.F.T. BRAND HYPODERMIC NEEDLES. **Hospital Quality,** stainless steel, with †choice of either *Record* or *Luer-locking* mounts, sizes: 1 to 20 and intradermal: 26 B.W.G. by $\frac{1}{2}$ in., as above stock sizes, in boxes of a dozen of a size, per doz.

S4450 Ditto .. INTRAMUSCULAR AND EXPLORING NEEDLES, as above stock sizes, except those marked thus ‡.

S4451 "IMPERIAL" BRAND HYPODERMIC NEEDLES, stainless steel, with †choice of either *Record*, *Luer* or *Luer-locking* mounts, sizes: 1 to 20 and intradermal: 26 B.W.G. by $\frac{1}{2}$ in., as above stock sizes, in boxes of a dozen of a size .. per doz.

S4452 Ditto .. INTRAMUSCULAR AND EXPLORING NEEDLES, as above stock sizes .. .. per doz.

S4453 "VIM" BRAND HYPODERMIC NEEDLES, stainless steel, with †choice of either *Record* or *Luer* fitting mounts, sizes: 1 to 20, and intradermal: 26 B.W.G. by $\frac{1}{2}$ in., as above stock sizes, in boxes of a dozen of a size .. .. per doz.

S4454 Ditto .. INTRAMUSCULAR AND EXPLORING NEEDLES, as above stock sizes .. .. per doz.

For illustrations of Needle Sizes: see Diapoint range on page S803.

†Record fitting supplied unless otherwise stated. S.I.M.A. Fitting Mounts can be supplied on request.

SYRINGE AND NEEDLE ADAPTORS

CAT. NO.	ILLUSTRATION (actual size)	DESCRIPTION	PRICE
S4455		Small rubber tubing connector. Record fitting	each
S4456		Medium rubber tubing connector. S.I.M.A. fitting ..	each
S4457		Large rubber tubing connector. S.I.M.A. fitting	each
S4458		Small rubber tubing adaptor. Male Record	each
S4459		Weintraud type rubber tubing adaptor. Male Record ..	each
S4460		Weintraud type rubber tubing adaptor. Male Luer ..	each
S4461		Weintraud type rubber tubing adaptor. Male 5/6	each
S4462		Weintraud type rubber tubing adaptor. Male S.I.M.A. ..	each
S4463		Weintraud type rubber tubing adaptor. Male No. 6 ..	each
S4464		Special long rubber tube adaptor. Male S.I.M.A. ..	each
S4465		Record to Record adaptor ..	each
S4466		Record to Luer adaptor	each
S4467		Record to 5/6 adaptor	each
S4468		Record to S.I.M.A. adaptor ..	each

Stopcocks: page S752

SURGICAL SUNDRIES

SYRINGE AND NEEDLE ADAPTORS (continued)

CAT. NO.	ILLUSTRATION (actual size)	DESCRIPTION	PRICE
S4469		Record to No. 6 adaptor ..	each
S4470		Luer to Record adaptor	each
S4471		Luer to Luer adaptor	each
S4472		Luer to 5/6 adaptor	each
S4473		Luer to S.I.M.A. adaptor ..	each
S4474		Luer to No. 6 adaptor	each
S4475		5/6 to Record adaptor	each
S4476		5/6 to Luer adaptor	each
S4477		5/6 to 5/6 adaptor	each
S4478		5/6 to S.I.M.A. adaptor	each
S4479		5/6 to No. 6 adaptor	each
S4480		S.I.M.A. to Record adaptor ..	each
S4481		S.I.M.A. to Luer adaptor ..	each
S4482		S.I.M.A. to 5/6 adaptor	each
S4483		S.I.M.A. to S.I.M.A. adaptor ..	each
S4484		S.I.M.A. to No. 6 adaptor ..	each

Stopcocks: see page S752

SYRINGE AND NEEDLE ADAPTORS (continued)

CAT. NO.	ILLUSTRATION (actual size)	DESCRIPTION	PRICE
S4485		No. 6 to Record adaptor ..	each
S4486		No. 6 to Luer adaptor	each
S4487		No. 6 to 5/6 adaptor	each
S4488		No. 6 to S.I.M.A. adaptor ..	each
S4489		No. 6 to No. 6 adaptor	each
S4490		5/6 syringe to Schimmel needle adaptor	each
S4491		Short Record to Schimmel needle adaptor	each
S4492		Short Record to Schimmel needle adaptor (with side hole) ..	each
S4493		Long Record to Schimmel needle adaptor (with side hole) ..	each
S4494		Record to Schimmel needle adaptor with long hexagon butt	each
S4495		Large rubber tubing to S.I.M.A.	each



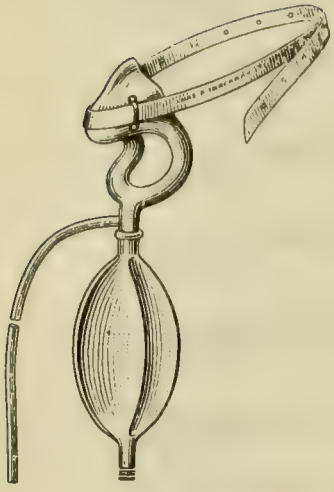
S4496

Cat. No.

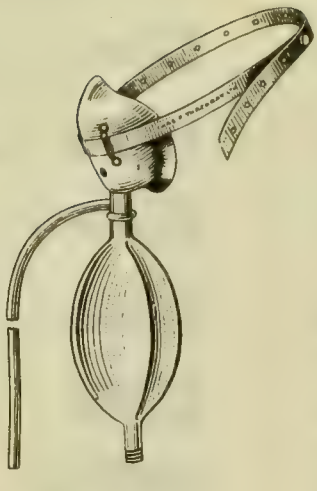
S4496 SYRINGE FILLING CANNULA, †Record fitting, 15 B.W.G. by 2 in. and 16 B.W.G. by 3 in. .. .. each

†Luer fitting on request.

Stopcocks: see page S752



S4497



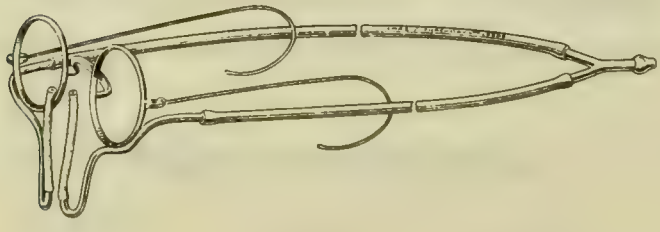
S4499

Cat. No.

S4497 B.L.B. TYPE OXYGEN INHALER, *nasal model*, adults' size, with adjustable strap, rubber .. .. each

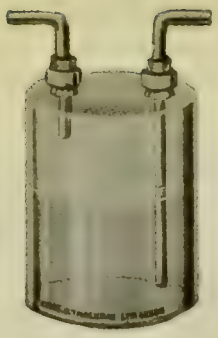
S4499 B.L.B. TYPE OXYGEN INHALER, *oro-nasal model*, adults' size, with adjustable strap, rubber .. .. each

S4500 Ditto .. children's size .. .. each



S4501

S4501 TUDOR EDWARDS' "SPECTACLES", for oxygen inhalation, consisting of: nickel plated frame, rubber nasal tubes, rubber tubing and metal Y-connection, complete



S4502



S4504

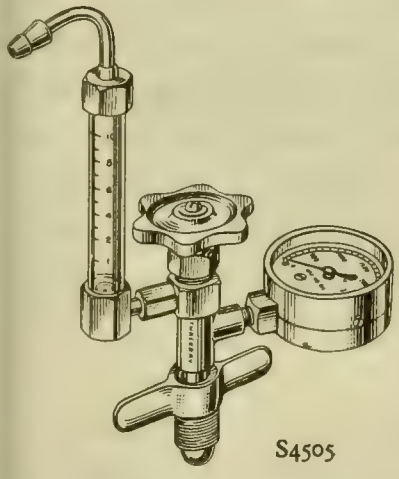
Cat. No.

S4502 WOULFFS BOTTLE, glass, 500 cc. capacity, size 4½ in. by 3¼ in. with two necks, complete with rubber bungs and glass tubes .. .. .. each

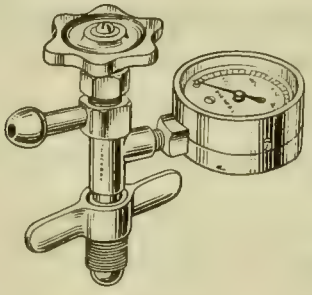
S4503 Ditto .. 1,000 cc. capacity .. .. each

S4504 OXYGEN WARMING BOTTLE, glass, 500 cc. capacity, with rubber bung and glass tubes .. .. each

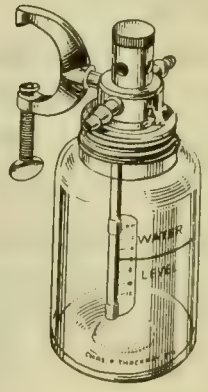
Spare bottles, tubes and bungs available on request.



S4505



S4506



S4507

S4505 DRY BOBBIN FLOWMETER (for *English* fitting cylinders), with pressure gauge, chromium plated .. .. each

For recording the flow of oxygen from 1 to 10 litres per minute. This Flowmeter requires adjusting periodically as the pressure in the gas cylinder falls.

S4506 FINE ADJUSTMENT VALVE, with pressure gauge, chromium plated, each

For Oxygen Cylinder with bull-nose valve connection.

S4507 FLOWMETER and HUMIDIFIER COMBINED, chromium plated fittings, each

S4508 Spare Glass Bottles for S4507 .. .. each

Designed on the Water Sight feed principle with a graduated scale denoting the outlet flow in litres per minute from 2 to 12. A reliable safety valve is provided for releasing excess pressure, also an adjustable clamp which enables the flowmeter to be connected to a bed rail or trolley. The above flowmeter and humidifier must be used in connection with a regulator or fine adjustment valve.

*S4509 SPANNER, combined oxygen cylinder key, spanner and valve coupler, black japanned finish .. .. each

*S4510 SPANNER, for gland nuts and union nuts of fine adjustment or reducing valves, chromium plated .. .. each

**Not illustrated*

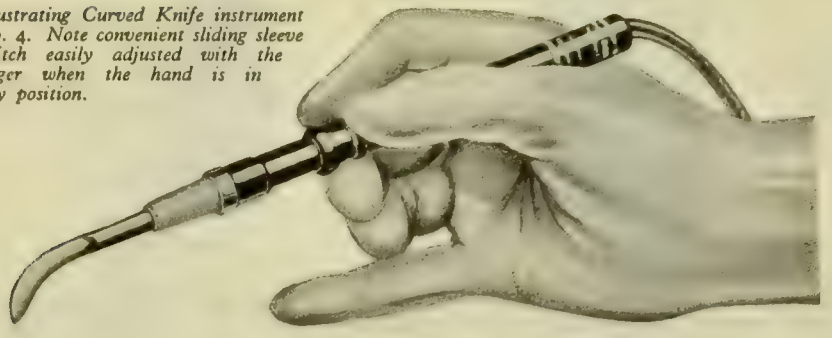
S4505 to S4507 inclusive **DISCONTINUED.**

Details of Latest Patterns available upon request.

ELECTRO-SURGICAL AND SUCTION APPARATUS

THE 'POST' ELECTRIC CAUTERY

FOR GENERAL SURGERY, GYNÆCOLOGY, ETC.



Illustrating Curved Knife instrument No. 4. Note convenient sliding sleeve switch easily adjusted with the finger when the hand is in any position.

Cat. No.		
E4511	'POST' ELECTRIC CAUTERY POINTS	
	Numbers 1 to 4 inclusive	each
	Number 5	each
	Major Duty, Number 6	each
E4512	UNIVERSAL HANDLE Number 7	each
E4513	INTERCHANGEABLE CAUTERY POINTS	
	Numbers A1 to A4 inclusive	each
	Number A5	each
	Number A6	each
E4514	PORCELAIN REST, for use with Points	each
E4515	HEAT GUARD, for use with Points Numbers 1 to 6 only ..	each
†E4516	EARTH-FREE TRANSFORMER (*Figs.* 1 *and* 2), for use with 'Post' Electric Cautery Points	each

Illustrations on pages E812–3

†*Please specify Voltage when ordering*

CAUTERY POINTS and HANDLES of American manufacture

EARTH-FREE TRANSFORMER of British manufacture

Description continued on opposite page.

ELECTRO-SURGICAL AND SUCTION APPARATUS

THE 'POST' ELECTRIC CAUTERY (continued)

FOR GENERAL SURGERY, GYNÆCOLOGY, ETC.

The 'POST' Cautery sets a new standard in modern instruments in combining the following advantages :

1. Distinctly portable, light, handy, safe.
2. Operated from a specially-designed EARTH-FREE Transformer for use on A.C. mains only, suitable for 200/210, 220/230, 240/250 volts A.C.
3. Solid Silver Knives, no oxidisation.
4. Uniform correct temperature, little or no bleeding.
5. Does not become COLD when applied to tissue.
6. Thoroughly insulated. No electrodes to burn out.
7. Rugged construction, long life.
8. NOISELESS.

Each type of instrument is a complete unit involving a handle about the size of a fountain pen composed of Bakelite, self insulated. Fitted on the handle of Points 1, 2, 3, 4 and 5, at the most convenient point, is a sliding-sleeve, positive-contact switch, allowing application of heat to the Cautery knife by slight finger pressure, the handle being cool at all times. (The Number 6 instrument is not fitted with a switch on the handle.) Current is released in the same manner. There are six (6) types of instruments for choice, each containing a permanent cautery knife or point of solid silver and all instruments are interchangeable through a simple connector on the cord wire. Alternatively, the UNIVERSAL MODEL is available with one handle only with a fitting to take various points.

The Cautery point or knife is free from oxidisation. The rugged heating element encased therein is fully insulated, as are also the connecting wires passing from the point through the handle. Current contact or shock to operator or patient is avoided. Allowing the cautery point or knife to reach maximum heat, a perfect cherry-red temperature of about 1,400° Fahr. is obtained. The position of the heating element in the base of each point warrants a steady uniform temperature at all times. Does not become COLD when applied to tissue and may be retained for an hour or more continuously if necessary.

In the event of serious damage to any instrument, repairs can be carried out. The 'Post' Cautery is designed for use on ALTERNATING CURRENT ONLY.

Description continued overleaf

ELECTRO-SURGICAL AND SUCTION APPARATUS

THE 'POST' ELECTRIC CAUTERY (continued)



E4516

Fig. 1

EARTH-FREE TRANSFORMER

for use with 'POST' Electric Cautery points :

SAFE TO USE
EASY TO OPERATE

NO ADJUSTMENT NECESSARY as Transformer is PRE-SET to give correct output.

Simply connect to Main Electric Supply and attach Point to correct pair of Terminals.

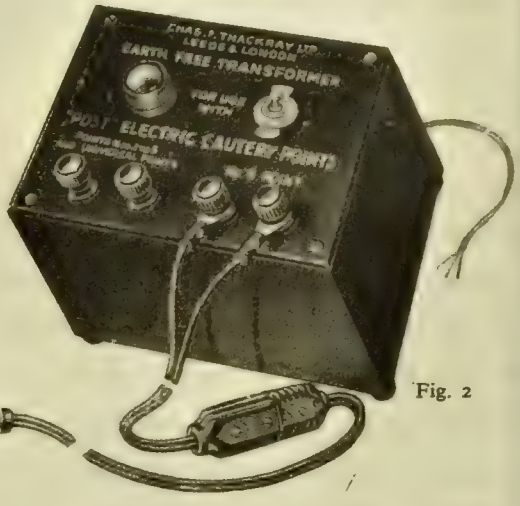
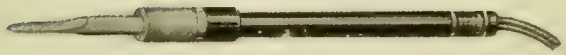


Fig. 2

Illustration shows Transformer connected to Number 6 Major Duty Point



STANDARD POINTS

Suitable for MAJOR SURGERY, GYNÆCOLOGY, ETC. E4511

Number 1. Spear Knife Instrument ... ...



Number 2. Blunt Point Instrument ... ...



Number 3. Needle Point Instrument ... ...



Number 4. Curved Knife Instrument ... ...



Number 5. Flexible Point Instrument ... ...



Number 6. Major Duty Instrument ... ...



Description continued on opposite page

THE 'POST' ELECTRIC CAUTERY (continued)

INTERCHANGEABLE POINTS

With UNIVERSAL HANDLE, suitable for MINOR, INTERMEDIATE and MAJOR DUTY

UNIVERSAL HANDLE No. 7 ... ...

General Surgery Group

A1. Spear Point ... ...

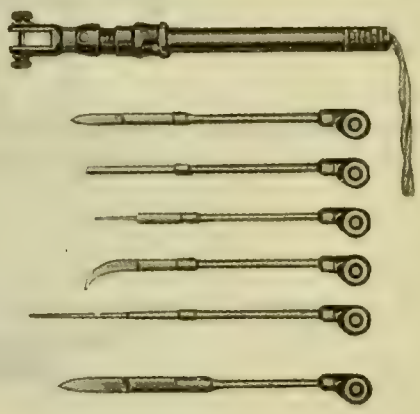
A2. Blunt Point ... ...

A3. Needle Point ... ...

A4. Curved Point ... ...

A5. Flexible Point ... ...

A6. Major Point .. ..



E4512–3

DESCRIPTION OF TRANSFORMER

The Special EARTH-FREE Transformer supplied for use with the 'Post' Electric Cautery Points has been designed to give the correct output for the various points. On the insulated panel there are two pairs of insulated terminals, clearly marked, i.e. one pair for Points Numbers 1 to 5 inclusive and the Universal Points A1 to A6 inclusive, and the second pair for Point Number 6 only.

INSTRUCTIONS FOR USE

The EARTH-FREE Transformer has a capacity of five amps and is provided with a suitable length of three-core cable to connect it to the Mains Electric Supply.
It is important that the plug used should be of the three-pin type to ensure that the machine is 'bonded' to earth.

(NOTE :—The three-pin plug is NOT supplied with the outfit.)

In addition, a length of two-core cable is provided to connect the various points to the transformer (*Fig.* 1); this cable is fitted with two hooked terminals and a female connector.

Each point is provided with a length of flex and a male connector which is plugged into the female connector of the two-core cable (*Fig.* 2).

If the pair of hooked terminals on the latter are now connected to the appropriate screw-down insulated terminals on the panel of the transformer, the apparatus is ready for use when the current is switched on at the mains plug and the switch on the panel of the transformer is 'ON', as indicated by the Green Pilot Light.

NOTE:—Points Numbers 1 to 5 and Universal Handle Number 7 have a sliding switch on each handle—Point Number 6 (Major Duty Instrument) has no switch.

IT IS IMPORTANT THAT THE HOOKED TERMINALS OF THE TWO-CORE CABLE BE CONNECTED TO THE CORRECT TERMINALS ON THE PANEL, ACCORDING TO THE POINTS BEING USED



E4517

Cat. No.

E4517 SIMPLE PATTERN GALVANO-CAUTERY HANDLE, **Light Duty** each

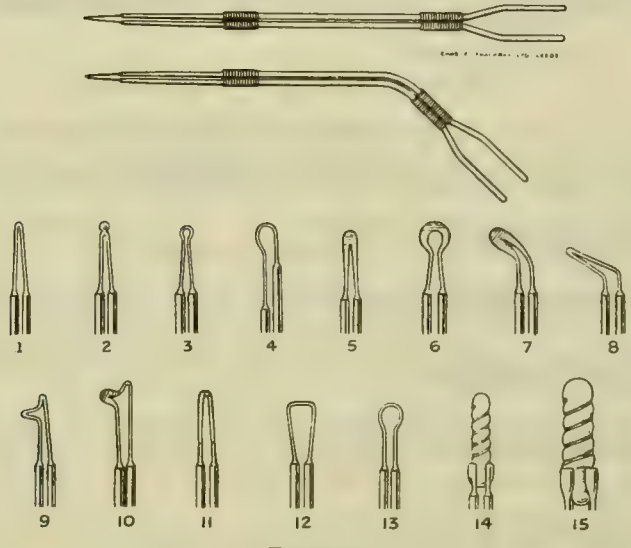
*E4518 Ditto .. Lightweight pattern for use with eye cauteries only (fig. E4522), each



E4519

E4519 MARK HOVELL'S GALVANO-CAUTERY HANDLE, **Light Duty,** each

E4519A CABLES, **Light Duty,** for handles for E4517-9 .. .. .. each



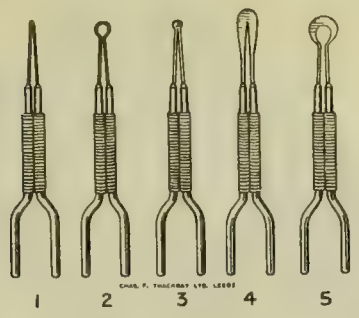
E4520–21

E4520 GALVANO-CAUTERY BURNERS, **Light Duty,** straight, platinum tipped, Nos. 1 to 15, 5 in. long .. .. each

E4521 Ditto .. bent .. .. each

Transformers: pages E816–8.

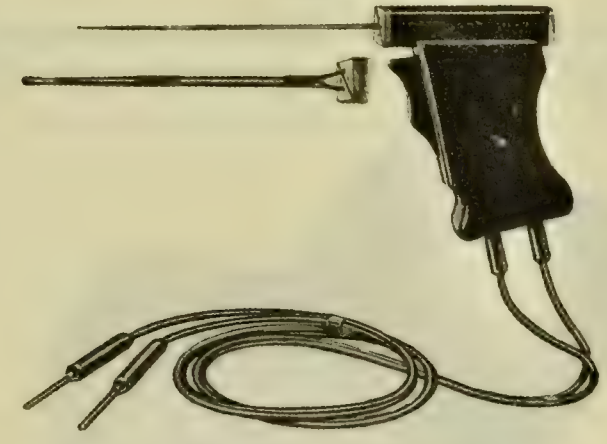
**Not illustrated*



E4522

Cat. No.

E4522 GALVANO-CAUTERY BURNERS, **Light Duty**, for eye work, platinum tipped, Nos. 1 to 5, for use with eye cautery handle (fig. E4518) .. .. each



E4523

E4523 PISTOL SHAPE GALVANO-CAUTERY HANDLE, **Light Duty**, complete with rubber-covered cables .. .. each

E4524 Ditto .. with light attachment .. .. each

E4525 Spare Lamps for above .. .. each

E4526 Spare Cables, **Light Duty** .. .. each

*E4527 PISTOL SHAPE GALVANO-CAUTERY HANDLE, **Heavy Duty**, complete with rubber-covered cables .. .. each

E4528 Ditto .. with light attachment .. .. each

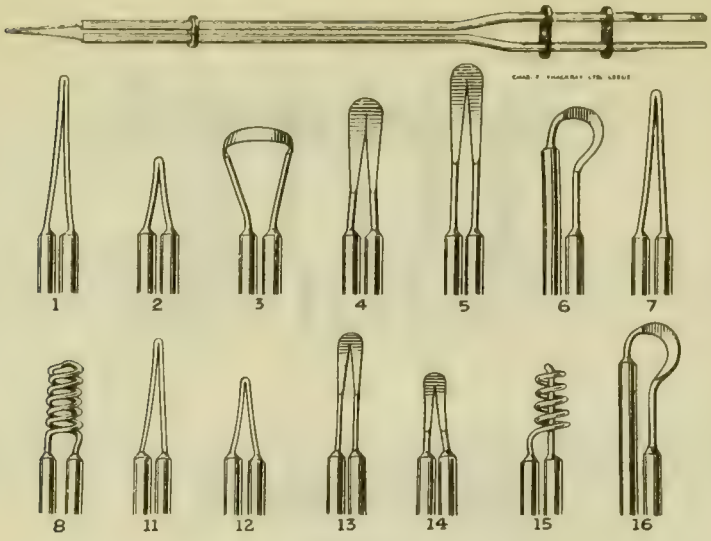
E4529 Spare Lamps for above .. .. each

E4530 Spare Cables, **Heavy Duty** .. .. each

Transformers: pages E816–8.

Heavy Duty Cautery Burners see overleaf.

**Not illustrated*



E4531-2

Cat. No.

E4531 GALVANO-CAUTERY BURNERS, **Heavy Duty**, straight, nickel-chrome alloy tipped, Nos. 1 to 16: 5 in. long .. .. each

E4532 Ditto .. 7 in. long .. .. each



E4533

†E4533 LIGHT AND CAUTERY TRANSFORMER, **Light Duty**, for **A.C. mains**, **(Please State Voltage)**, with rheostat for lamps giving control from zero to 6 volts, and rheostat for cautery .. .. each

†*This Transformer is now earth-screened to comply with recommendations of the Ministry of Health.*

For use with Cautery Burners and Handles: pages E814–5.



E4534

Cat. No.

†E4534 CAUTERY TRANSFORMER, **Light Duty**, for **A.C. mains (Please State Voltage)**, with rheostat .. .. each

For use with Cautery Burners and Handles: pages E814–5.



E4535

†E4535 LIGHT AND CAUTERY TRANSFORMER, **Heavy Duty** for **A.C. mains (Please State Voltage)**, with rheostats for lamps giving control from zero to 6 volts, and rheostat for cautery .. .. each

†E4536 Ditto .. for Cautery only .. .. each

†*These Transformers are now earth-screened to comply with recommendations of the Ministry of Health.*

For use with Cautery Burners and Handles: pages E815–6.



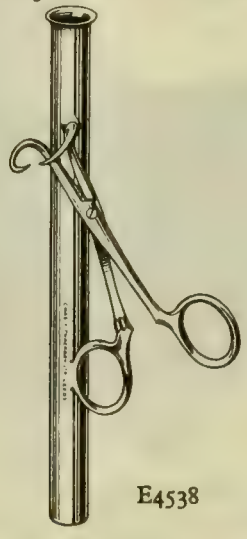
Cat. No. E4537

†E4537 LIGHT AND CAUTERY TRANSFORMER, **Heavy Duty**, for **A.C. mains, Please State Voltage**, with rheostat for lamps giving control from zero to 6 volts, and rheostat for cauteries, in leatherette-covered case .. .. each

†*E4537A Ditto .. Cautery only .. .. each

†*These Transformers are now earth-screened to comply with recommendations of the Ministry of Health.*

For use with Cautery Burners and Handles: pages E815–6.



E4538

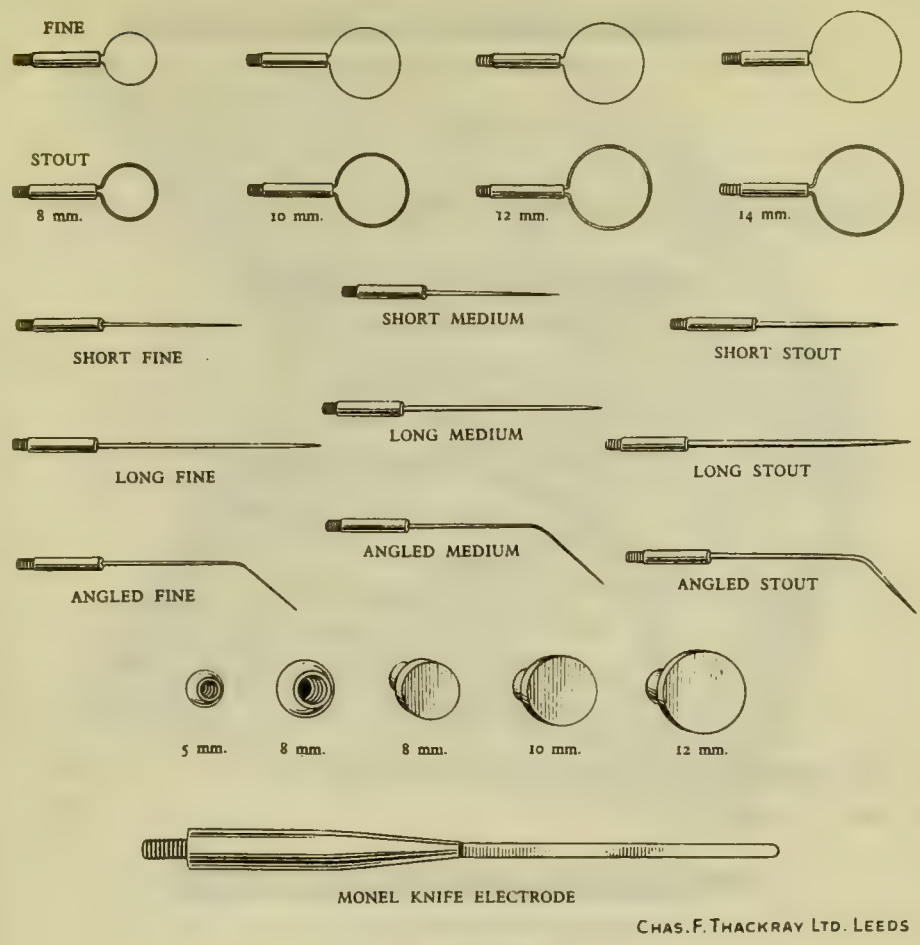
E4538 WINGFIELD'S DIATHERMY "QUIVER", stainless steel .. each

This instrument provides a convenient receptacle for a Diathermy Handle or Wheeler-Poole's Suction Tube when not in use. By means of the tenaculum forceps—welded to the tube—the "Quiver" can be clipped to the most convenient position in the field of operation.

*E4538A Ditto .. with loop on tube to hold Suction Tube, as used at Leeds General Infirmary .. .. each

**Not illustrated*

ELECTRO-SURGICAL AND SUCTION APPARATUS



E4539–46

Cat. No.

E4539 DIATHERMY LOOPS, fine, pure tungsten, four sizes: 8 mm., 10 mm., 12 mm. and 14 mm. .. .. each

E4540 Ditto .. stout .. .. each

E4541 DIATHERMY NEEDLES, straight, *short*, pure tungsten, three sizes: fine, medium and stout .. .. each

E4542 Ditto .. *long* .. .. each

E4543 Ditto .. *angled* .. .. each

Handle for loops and needles: page E820.

E4544 DIATHERMY BALL ELECTRODE silver, two sizes: 5 mm. and 8 mm., each

E4545 Ditto .. PLATE ELECTRODES, three sizes: 8 mm., 10 mm. and 12 mm., each

Carriers for ball and plate electrodes: page E820.

E4546 DIATHERMY KNIFE ELECTRODE, monel metal .. .. each

Handle for knife electrode: page E820.

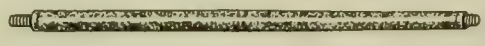


HANDLE FOR LOOPS AND NEEDLES

E4547

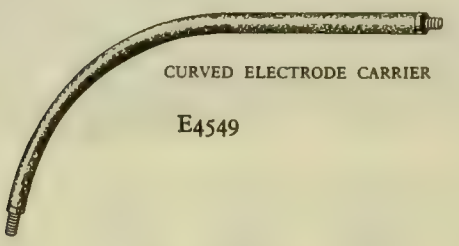
Cat. No.

E4547 DIATHERMY HANDLE for loops and needles .. .. .. each



STRAIGHT ELECTRODE CARRIER

E4548

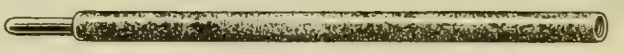


CURVED ELECTRODE CARRIER

E4549

E4548 DIATHERMY CARRIER, straight, for ball and plate electrodes .. each

E4549 Ditto .. curved .. .. each



HANDLE FOR KNIFE ELECTRODE AND
ALSO FOR ELECTRODE CARRIERS

E4550

E4550 DIATHERMY HANDLE for knife electrode and electrode carriers .. each



DIATHERMY CABLE

E4551

E4551 DIATHERMY CABLE, plastic covered .. .. each

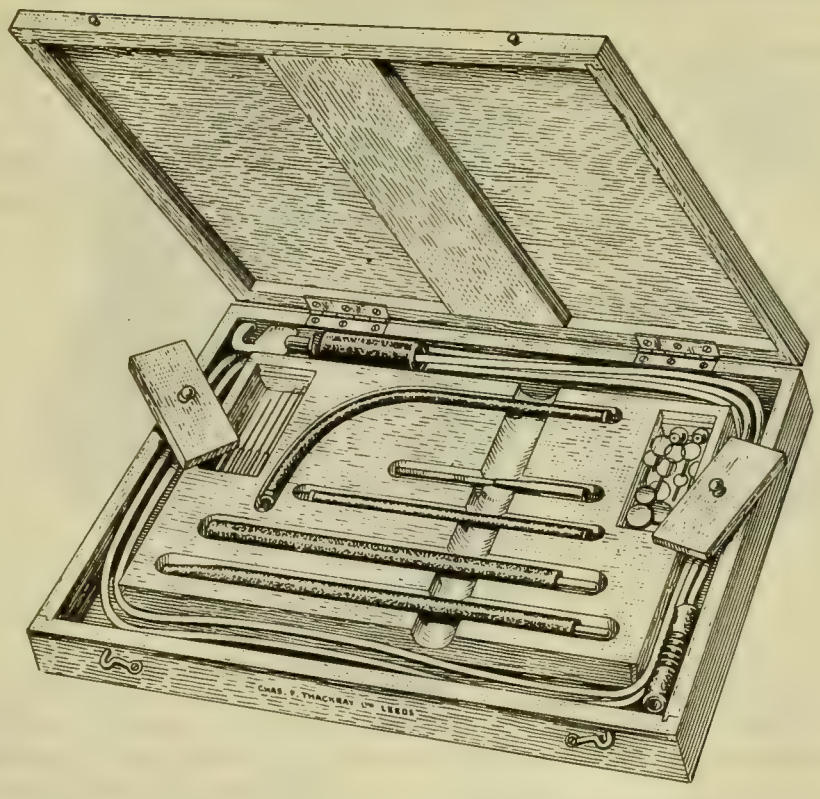
E4551A DIATHERMY LEAD, perforated, in sheets size 17 in. by 17 in. .. each

E4551B Ditto .. plain .. .. each

E4551C Ditto .. Lead Plate, size 8 in. by 6 in., fitted with terminal to take Pin type connector .. .. each

All above handles and cables are boilable.

Diathermy Machines: pages E822–6



E4552

DIATHERMY SET, consisting of:
One Handle, for needles and loops, E4547
One Handle, for monel knife, E4550
One Monel Knife, E4546
One Straight Carrier, for ball and plate electrodes, E4548
One .. ditto .. curved, E4549
One each 8, 10, 12 and 15 mm. loops, fine and stout, E4539–40
One each short fine, short medium, short stout, long fine, long medium and long stout needles, E4541–2
One each 5 and 8 mm. ball electrodes, E4544
One each 8, 10 and 12 mm. plate electrodes, E4545
One Diathermy Cable, E4551

Cat. No.		
E4552	In mahogany case	complete

Diathermy Machines: pages E822–6.

ELECTRO-SURGICAL AND SUCTION APPARATUS

THE NEW †"DIATRON" VALVE-OPERATED SURGICAL DIATHERMY MACHINE

DESIGNED FOR CUTTING AND COAGULATING UNDER WATER, ALSO SUITABLE FOR USE IN AIR FOR GENERAL SURGERY

Conforms to the exacting recommendations issued by the Ministry of Health in "Report of a Working Party on Anæsthetic Explosions" and in Memorandum H.M. (60) 49 (21st June, 1960) entitled "Electrical Safety in Hospitals—Electro Medical Apparatus".



E4554A

The new "Diatron" Valve-operated Diathermy Machine is a powerful electro-surgical unit which provides currents for cutting and coagulating in general, gynæcological and urological surgery. It is particularly suitable for underwater cutting in transurethral resection of the prostate and meets the needs of modern technique in this field for the more rapid cutting of prostatic tissue.

By the use of a powerful high frequency generator using two triode thermionic valves, the "Diatron" will provide cutting current which is clean and without "drag" and effective coagulation for the control of bleeding; the two currents are separate (with Control Dials from zero to maximum in eight steps) and the footswitch is of the twin type. Thus the operator can pre-set the degree of cutting and coagulation required by means of control-knobs on the panel of the machine and select the required current by movement of the foot.

The new "Diatron" is fitted as standard with transformer circuits for galvano-cautery burners also lighting for headlamps and endoscopic instruments, all of which can be used simultaneously. The "Endoscopic" light circuit has two current limiting devices to protect against a high-intensity spark occurring in the event of a short circuit, also to protect lamp-bulbs against burn-out due to high frequency current.

Electrodes, Loops, Needles and Handles: pages E819–820.

† DIATRON—*Regd. Trade Mark.*

Description continued on opposite page.

THE NEW "DIATRON" VALVE-OPERATED SURGICAL DIATHERMY MACHINE *(continued)*

SPECIAL FEATURES

Cabinet: Steel construction stove-enamelled in ivory-white, *completely gas-proofed*; fitted with drawer for accessories and mounted on anti-static castors.

Foot-Switch: Twin pattern for cutting or coagulation; gas-proofed and *completely enclosed against entry of water under normal conditions*; connection to machine (recessed to prevent accidental damage—see Fig. 1) is a non-reversing plug and socket, sealed and gas-proof tested and which can be locked in position.

Control Panel, of laminated plastic, is fitted with "Operating Indicator" (a neon pilot light which glows when diathermy currents are being applied) and "Plate Test", this being a valuable addition for checking the continuity of the "Indifferent" Electrode and a precaution against diathermy burns caused by broken or fractured cables (see Fig. 2).



FIG. 1

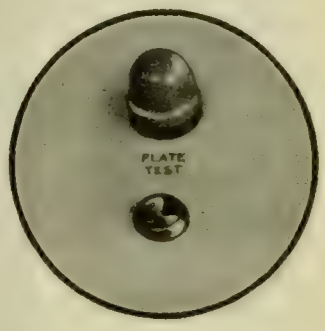


FIG. 2

SPECIFICATION

Power Output: 250 watts for optimum load conditions.

Operating Frequency: 3 megacycles per second for both cutting and coagulation outputs.

Main Oscillator Valves: Two Power Triodes, Type TY2/125, operating in parallel.

High Tension Circuit: Obtained from fully-impregnated transformer fitted with earthed screen between primary and secondary windings.

Indicator Lamps: 'Operating Indicator'—Neon type. 'Surgery'—6·3 v., 0·3 amp. 'Cautery and Light'—6·3 v., 0·3 amp.

Circuit Protection: Panel-mounted fuses are of the high-rupture capacity cartridge type. Spares are supplied with unit (housed in accessory drawer).

Power Input: Standard units suitable for 200–250 volts A.C. Mains. Single phase, 50 cycles. (Lower voltage models made to special orders).

Consumption: 1,200 V.A. 0·79 power factor. 950 watts.

CAUTERY AND LIGHT TRANSFORMERS

Light Circuits: 'Headlight' circuit 0–6 volts 2-amp., suitable for most surgical lamps. 'Endoscopic Instrument' circuit 0–4 volts 0·5 amp., fitted with current limiting device.

Cautery Circuit: A 4-volt, series controlled circuit, giving ample regulation for all standard cautery burners, maximum of 25 amps. continuously rated.

Weight: 139 lb. (63·0 kg.). Height: 35¼ in. (89·5 cm.). Width: 23½ in. (59·7 cm.). Depth: 19¼ in. (48·9 cm.).

Cat. No.

E4554A "Diatron" Valve-operated Surgical Diathermy Machine, with transformers for Cautery and Light, complete with twin foot-switch and Indifferent Electrode and cable, as specified above .. .. each

The "Diatron" can be specially proofed for use in the tropics, without extra cost.

Suitable for use on Alternating Current only; please state Voltage when ordering.

NOTE.—The "Diatron" is suitable for use with resectoscopes including those on pages U246, U248, U249 *and* AD871–2.

Electrodes, Loops, Needles and Handles: pages E819–820.

ELECTRO-SURGICAL AND SUCTION APPARATUS

THE NEW "ENDOTHERM" SURGICAL DIATHERMY MACHINE

FITTED WITH TUNGSTEN SPARK GAPS DESIGNED FOR USE IN GENERAL, ABDOMINAL, THORACIC AND NEUROLOGICAL SURGERY, ETC.

Conforms to the exacting recommendations issued by the Ministry of Health in "Report of a Working Party on Anæsthetic Explosions" and in Memorandum H.M. (60) 49 (21st June, 1960) entitled "Electrical Safety in Hospitals — Electro Medical Apparatus".



E4556A

The new "Endotherm", designed to comply with the latest recommendations issued by the Ministry of Health, is fitted with tungsten spark-gaps to produce high-frequency diathermy currents and is suitable for general use in Abdominal, Thoracic, Gynæcological and Neurological Surgery.

Both Cutting and Coagulating currents are provided and a two-way switch on the panel enables the operator to select the current required. Intensity of the current is controlled by means of a graduated dial.

The foot-switch for the "Endotherm" is gas-proofed and completely enclosed against the entry of water under normal conditions.

If required, Light and Cautery Transformers can be incorporated in the cabinet and for Thoracic Surgery the unit can also be supplied with a double-platform foot-switch to enable the operator to select either Diathermy or Cauterising currents.

SPECIAL FEATURES

Cabinet: Steel construction stove-enamelled in ivory-white, *completely gas-proofed*; fitted with drawer for accessories and mounted on anti-static castors.

Foot-Switch: Gas-proofed and *completely enclosed against entry of water under normal conditions*; connection to machine (recessed to prevent accidental damage—see Fig. 1) is a non-reversing plug and socket, sealed and gas-proof tested and which can be locked in position.

Control Panel, of laminated plastic, is fitted with "Operating Indicator" (a neon pilot light which glows when diathermy currents are being applied) and "Plate Test", this being a valuable addition for checking the continuity of the "Indifferent" Electrode and a precaution against diathermy burns caused by broken or fractured Cables (see Fig. 2).

Description continued on opposite page



FIG. 1

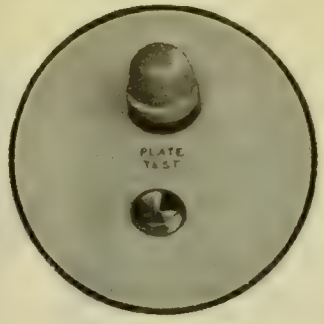


FIG. 2

SPECIFICATION

Power Output: 200 watts maximum.

High Frequency Generator: Spark-gap operated.

High Tension Circuit: Obtained from double-bobbin fully-impregnated transformer.

Indicator Lamps: 'Operating Indicator'—Neon type. 'Surgery'—6·3 v., 0·3 amp.

Circuit Protection: Panel-mounted fuses are of the high-rupture capacity cartridge type. Spares are supplied with unit (housed in accessory drawer).

Power Input: Standard units suitable for 200–250 volts A.C. Mains, single phase, 50 cycles. (Lower voltage models made to special orders).

Consumption: 1,320 V.A. (0·85 Power Factor, 1,120 watts).
Weight: 179 lb. (81·2 kg.). Height: 35¼ in. (89·5 cm.). Width: 23½ in. (59·7 cm.). Depth: 19¼ in. (48·9 cm.).

CAUTERY AND LIGHT TRANSFORMERS (Cat. Nos. E4556A and E4557A only).

†**Light Circuits:** 'Headlight' circuit 0–6 volts 2-amp., suitable for most surgical lamps. 'Endoscopic Instrument' circuit 0–4 volts 0·5 amp., fitted with current limiting device.

Cautery Circuit: A 4-volt, series controlled circuit, giving ample regulation for all standard cautery burners, maximum of 25 amps. continuously rated.

†*Fitted with two current limiting devices to protect against a high-intensity spark occurring in the event of a short circuit, also to protect lamp-bulbs against burn-out due to high frequency current.*

Cat. No.

E4555A "Endotherm" Surgical Diathermy Machine, Standard Model, as described above, complete with Indifferent Electrode and cable and foot-switch .. .. each

E4556A Ditto .. but fitted with transformers for Light and Cautery and regulators for same .. .. each

E4557A Ditto .. ditto .. for Thoracic Surgery, with double-platform foot-switch to enable operator to select diathermy or cautery current .. .. each

The above machines can be specially proofed for use in the tropics, without extra cost.

Suitable for use on Alternating Current only; please state Voltage when ordering.

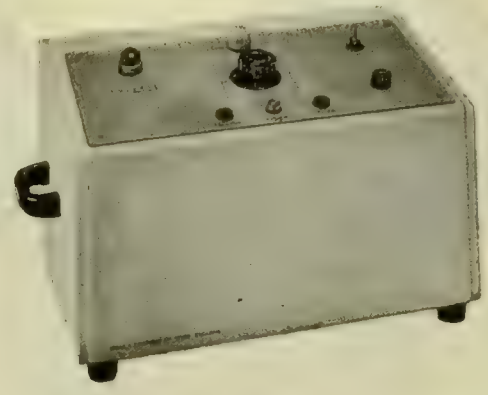
Electrodes, Loops, Needles and Handles: pages E819–20.

ELECTRO-SURGICAL AND SUCTION APPARATUS

THE NEW "ENDOFREX" VALVE-OPERATED SURGICAL DIATHERMY MACHINE

FOR CUTTING, COAGULATION, FULGURATION AND DESICCATION

Conforms to the exacting recommendations issued by the Ministry of Health in "Report of a Working Party on Anæsthetic Explosions" and in Memorandum H.M. (60) 49 (21st June, 1960) entitled "Electrical Safety in Hospitals—Electro Medical Apparatus".



E4561A

Designed for minor surgical work, the new ENDOFREX is a portable valve-operated machine which is suitable for use in dermatology, gynæcology, etc. It can be used in the following procedures:

Desiccation—for Verruca (Wart), keratosis, sarcoid cysts, furunculus, papillomas, tumours, vaginal cysts, etc. Needle is inserted into the tissue to produce dehydration and subsequent shrinkage.

Fulguration—for lupus vulgaris, moles, fibroma, epithelioma, granular pharyngitis, etc. The needle is held away from the tissue, dehydration or carbonisation being accomplished by the current sparking across.

Coagulation—for tonsil tags, cervicitis, cervical cysts, hæmorrhoids, endocervicitis, cervical growths, etc. The ball electrode, held against the tissue, produces rapid coagulation.

In use, the **Endofrex** is employed with a mono-polar output; an indifferent electrode may be connected to increase all outputs if required.

The new **Endofrex** is supplied in an all-steel portable cabinet which is *completely gas-proof*, finished in ivory-white stove enamel. It is supplied with foot-switch, indifferent cable and electrode, surgical handle, two needles and one coagulating ball electrode.

SPECIFICATION

Power Output: 80 watts for optimum load conditions.

Operating Frequency: 3 megacycles per second.

Oscillator Valve Circuit: Type TY2/125 Power Triode, operating under low power conditions.

Oscillator Power Supply: Separate transformers are used for Heater and High Tension supplies. The primary of the H.T. transformer is operated by the foot-switch. Both transformers fitted with earthed screens between primaries and secondaries.

Indicator Lamps: Operating 'Indicator'—Neon type. Mains pilot—6·3 v., 0·3 amp.

Power Input: Standard units suitable for 200–250 volts A.C. Mains, single phase, 50 cycles. (Lower voltage models made to special orders).

Consumption: 350 V.A. 0·8 Power Factor. 280 watts.

Weight: 33 lb. (14·9 kg.). Height: 11¼ in. (28·6 cm.). Width: 20 in. (50·8 cm.). Depth: 11½ in. (29·2 cm.).

Cat. No.

E4561A "ENDOFREX" portable valve-operated Diathermy Machine, as described above, each

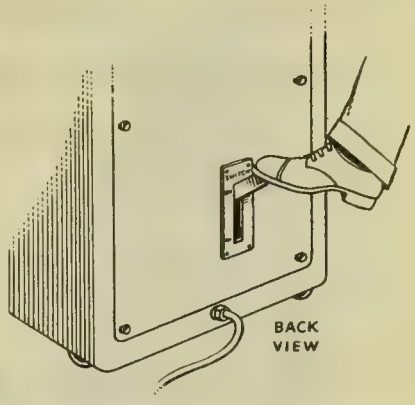
The above machine can be specially proofed for use in the tropics, without extra cost.

Suitable for use on Alternating Current only; please state Voltage when ordering.

ELECTRO-SURGICAL AND SUCTION APPARATUS

"SUPERVAC" ELECTRIC SUCTION PUMP





A POWERFUL QUIET-RUNNING SUCTION UNIT, SPECIALLY DESIGNED FOR USE IN THE HOSPITAL OPERATION THEATRE, ETC.

E4563

Special features include:

- Totally enclosed flameproof motor.
- Twin Suction Jars, 4-pint capacity, float-controlled to prevent fluids entering pump.
- Change-over valve interconnected to both jars to permit continuity of operation.
- Foot operated lever-switch for motor.

† • Filter on exhaust outlet to prevent dissemination of micro-organisms.

The *SUPERVAC is fitted with a powerful single-stage high vacuum rotary pump, and provides a high degree of suction which is necessary for surgical operations, etc. It is operated by a Flameproof Motor (Buxton Certified for Group 2 gases) with its control switch incorporated within the flameproof casing, and actuated by a simple external lever (see inset) through a flameproof bearing.

The pump is connected to two wide-mouthed glass suction jars through a two-way lever-operated valve (mounted on the front of the cabinet) so that when one jar is full of fluid, the lever may be switched over to operate the second jar immediately, permitting the first jar to be disconnected, emptied and replaced without interfering with the vacuum in the second jar, thus providing continuous uninterrupted suction.

Each jar is secured to the cabinet by means of a tension spring for speedy fixation and release, and each is fitted with a float which automatically operates a simple air-inlet valve when the fluid rises to a pre-determined safe level. This valve, mounted externally on the metal top of the bottle, is connected directly to the pump; consequently, once the float has operated, *there is no danger of fluid entering the pump even if fluid continues to enter the bottle by syphoning*. The metal tops of the suction jars are fitted with cone-shaped metal connections on the tubing mounts, of different sizes to eliminate the possibility of a wrong connection being made.

Interconnected with the suction system are a Regulating Valve (left top of front of cabinet) for increasing or decreasing the suction and a Vacuum Gauge to indicate the degree of vacuum in inches of mercury.

†*Vide "Lancet", 9th August, 1958, pp.299-300.* *Trade Mark

ELECTRO-SURGICAL AND SUCTION APPARATUS

"SUPERVAC" ELECTRIC SUCTION PUMP (continued)

SPECIFICATION

MOTOR
¼ h.p. 1,425 r.p.m. Capacitor type, continuous rating, single phase, 50 cycle, flameproof, with built-in control switch operated by extension lever.

PUMP
Single stage rotary type high vacuum pump and compressor, belt driven.

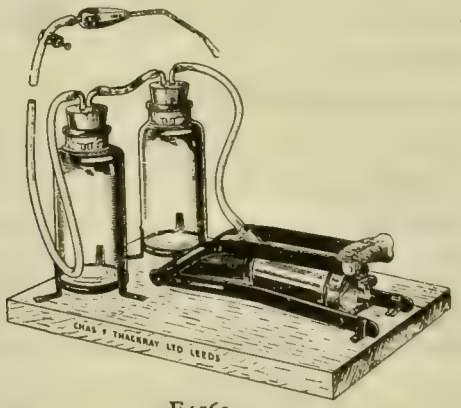
DISPLACEMENT
20 litres (35·2 pints) (0·7 cu.ft.) per minute.

ULTIMATE VACUUM
0·25 mm. of mercury.

CABINET
Cream enamelled heavy gauge sheet steel with fittings as illustrated, access panel at back, mounted on ball bearing rubber tyred castors with anti-static rubber tyres. Size: Cabinet 14 by 17½ by 23 in.; Platform 17½ by 8 in.

†Cat. No.		
E4563	"SUPERVAC" ELECTRIC SUCTION PUMP with twin jars with safety floats and 3 yds. of pressure tubing for each, change-over valve, vacuum control valve, vacuum gauge 0—30 in. mercury, ¼ h.p. flameproof motor and rotary pump, mounted in cream enamelled sheet steel cabinet, as described, complete with 6 yds. rubber covered 3-core cable	complete
E4563A	Ditto .. Single Jar Model	complete
E4564	Spare Glass Jars, without metal top	each
E4565	Spare Metal Top and Safety Float for above	each
E4566	Spare Rubber Washer for above	each
E4567	Spare Endless Driving Belt	each
E4568	Oil for pump	per pint
E4568A	Pressure Tubing, rubber	per yard

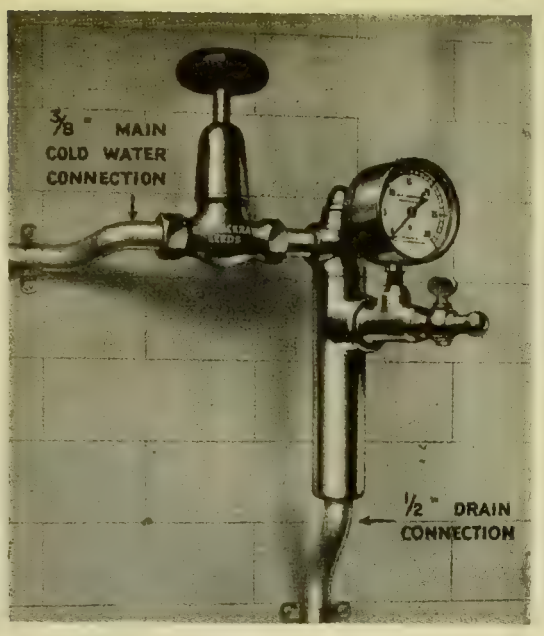
†*For use on A.C. mains.* *Please state Voltage when ordering.*



E4569

Cat. No.		
E4569	SUCTION PUMP, "FOOT OPERATED", complete with Yankauer's suction tube, as illustrated, bottles 40 oz. capacity	each
E4569A	Ditto .. without Yankauer's suction tube	each
E4570	Spare Bottles for above	each

A useful piece of equipment for places where it is not possible to install electrically driven suction pumps or those dependent on pressure water supply; also as an **Emergency Pump** *in case of breakdown of water and electricity services.*



E4571–2



E4573–4

This apparatus is not effective where the pressure-head of water is less than 30 lb. per square inch at the Inlet Stop Valve.

†"AQUA-VAC" WATER SUCTION VALVE, for permanently fixing to the wall of the operation theatre or hospital ward. A new valve providing an inexpensive method of obtaining suction.

Designed according to a well-known principle, it depends for its action on the water pressure in the main cold water system. Unlike electric pumps and suction valves which fit on to water taps, the "Aqua-Vac" always works efficiently and silently.

Simple to install and merely necessary to fix it to the wall as illustrated and connect it to MAIN cold water and drain. A vacuum gauge is fitted to indicate the exact degree of suction being obtained. A model can also be supplied to work on a STEAM main when the pressure at the Stop Valve is approximately 15 lb. per square inch.

In addition to theatre use, it is invaluable in hospital wards for draining the bladder after prostatectomy Chromium plated.

Cat. No.		
E4571	For Water	each
E4572	For Steam	each
E4573	"SAFETY" SUCTION BOTTLE has been designed for use with the "Aqua-Vac" Suction Valve. It is fitted with a float valve arranged to close automatically when aspirated fluid reaches a high level. This prevents the possibility of pus or other undesirable fluids from entering and contaminating the Suction Valve. In use, it is interposed between the valve and suction tube. All metal parts chromium plated. Capacity approximately ½ gallon	each
E4574	Spare Glass Bottles for above	each
*E4575	PRESSURE TUBING, rubber, thick walled, for use with the "Aqua-Vac" Suction Valve	per yard

**Not illustrated.* *†Reg. Trade Mark*



E4576

FOR USE ON ALTERNATING CURRENT ONLY
PLEASE STATE VOLTAGE WHEN ORDERING



E4578

FOR USE ON ALTERNATING CURRENT ONLY
PLEASE STATE VOLTAGE WHEN ORDERING

Cat. No.

†E4576 "MINVAC" ELECTRIC PORTABLE SUCTION PUMP, for continuous operation, complete with ‡Filter 4-pint glass drainage bottle, 2-way metal connection and tubing. Mounted on cream enamelled wooden base board with chromium-plated carrying handle and bottle clip .. .. complete

†*E4576A Ditto .. fitted with Overflow Valve to prevent fluid entering motor, complete

E4577 Spare Drainage Bottles for above .. .. each

This pump is for use in hospital wards for slow, continuous or intermittent supra-pubic drainage of the bladder, intestines, etc. Totally enclosed and *silent* in use the motor will work continuously as it is operated by electro-magnetic force.

†E4578 ROBERTS' TYPE ELECTRIC PORTABLE SUCTION PUMP, for continuous operation, complete with ‡Filter 4-pint glass drainage bottle, 3-way metal connection and rubber tubing, automatic vacuum-control valve, double-piston rod, vacuum gauge graduated 0–30 cm. mercury. Mounted on cream enamelled wooden base board with chromium-plated handle and bottle clip .. .. .. complete

†*E4578A Ditto .. fitted with Overflow Valve to prevent fluid entering motor, complete

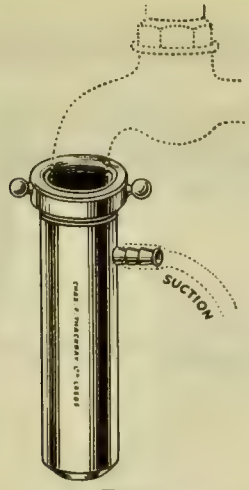
E4579 Spare Drainage Bottles for above .. .. each

This pump is for use in hospital wards for slow, continuous or intermittent drainage —particularly of empyema. Totally enclosed and *silent* in use, the motor will work continuously as it is operated by electro-magnetic force. The vacuum gauge in conjunction with the Automatic Control valve provides pre-selection of the degree of vacuum required.

†Perspex Covers for Motor Units only, extra .. .. .. each

**Not illustrated*

‡*Filter prevents dissemination of micro-organisms, Vide "Lancet" 9th Aug. 1958, pp. 299-300.*



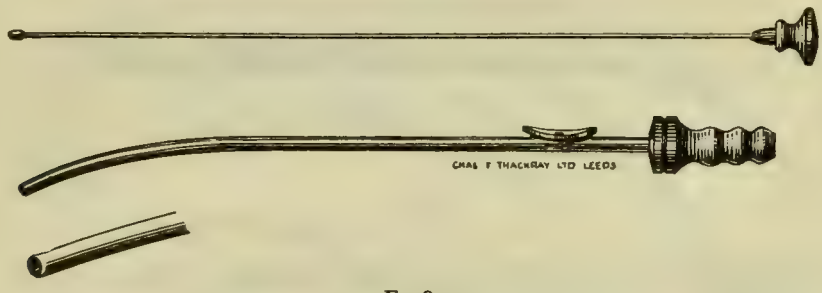
E4580

Cat. No.

E4580 GRAY'S SUCTION PUMP, chromium plated, for use on ordinary cold water tap, each

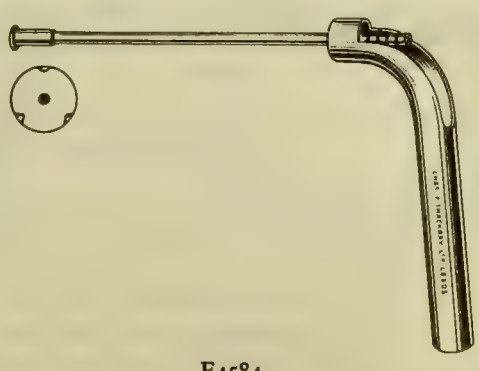
E4581 Spare Rubber Washers for above .. .. each

E4582 Rubber Tubing for the above pump .. .. per yard



E4583

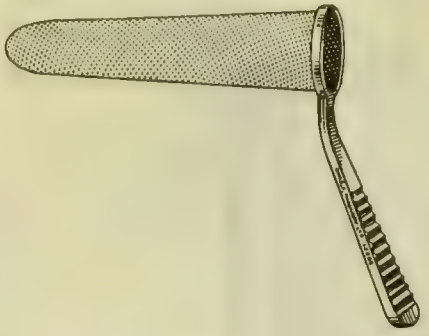
E4583 AMERICAN PATTERN SUCTION TUBE, with stilette, chromium plated, each



E4584

E4584 DENIS BROWNE'S SUCTION TUBE, chromium plated .. .. each

The large bore metal tube attached to the tubing mount provides reinforcement for rubber tubing to prevent kinking and also serves as a handle.

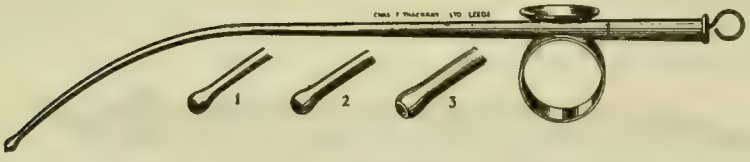


E4585

Cat. No.

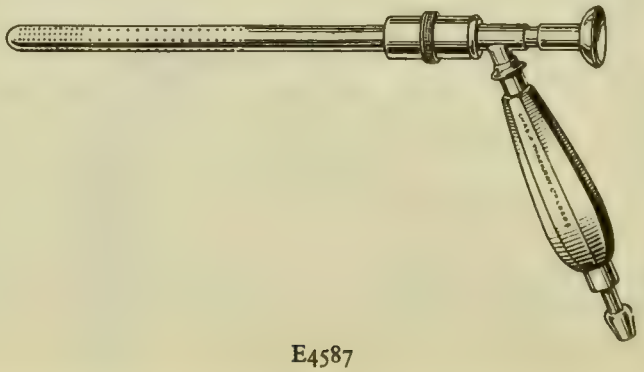
E4585 DENIS BROWNE'S SUMP, chromium plated .. .. .. each

For evacuation of fluid from the abdominal cavity. Any suction tube (metal or rubber) with an open end can be used, as the perforations on the sump permit continuous filtering of fluid and prevent blockage of the suction tube by bowel, etc.



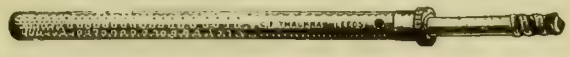
E4586

E4586 MAGILL'S SUCTION TUBES, for removing air bubbles from under graft, three sizes: 1, 2 and 3, chromium plated .. .. each



E4587

E4587 SIMPSON-SMITH'S SUCTION TUBE, with thumb-button control, detachable inner suction tube and perforated sheath 31 French Catheter Gauge, chromium plated .. .. each

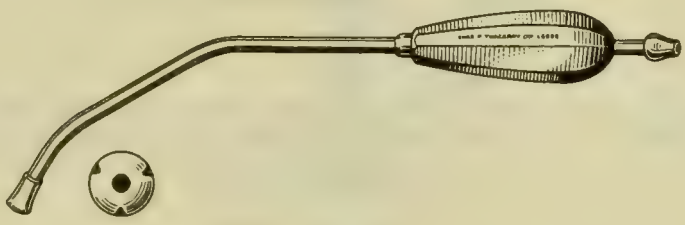


E4588

Cat. No.

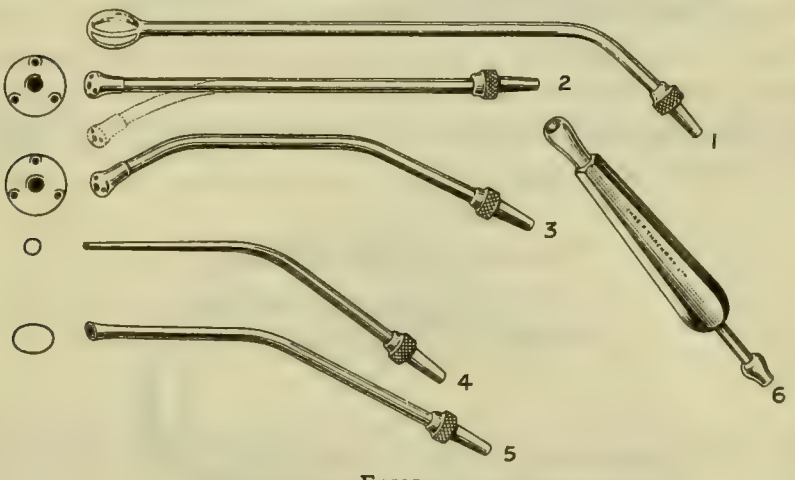
E4588 WHEELER'S OR POOLE'S SUCTION TUBE, detachable inner suction tube, with straight tubing mount and perforated sheath 29 French Catheter Gauge, chromium plated .. .. each

E4589 Ditto .. with curved mount .. .. each



E4590

E4590 YANKAUER'S SUCTION TUBE, chromium plated .. .. each



E4591

E4591 UNIVERSAL SUCTION SET, consisting of: five suction tubes (Nos. 1–5) and universal handle (No. 6) as specified below .. .. .. complete

Separate parts:

E4592 Abdominal Suction Tube, No. 1, with fenestrated tip, chromium plated, each

E4593 Malleable Tube, No. 2, with perforated tip, silver plated stem, chromium plated tip .. .. each

E4594 Yankauer's Tube, No. 3, with perforated tip, chromium plated .. each

E4595 Bent Tube, No. 4, with round open tip, chromium plated .. .. each

E4596 Bent Tube, No. 5, with oval open tip, chromium plated .. .. each

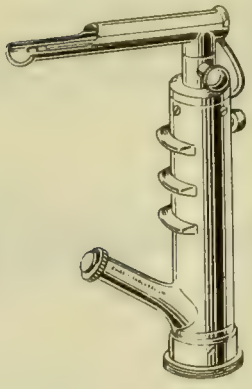
E4597 Universal Handle, No. 6, with socket to take any of the cone-fitting mounts of Nos. 1–5, chromium plated .. .. each

Wooden or metal cases for the above can be made to order.

ADDENDA

GENERAL OPERATION INSTRUMENTS

ANÆSTHETIC ACCESSORIES



AD4668

Cat. No.

AD4668 "SHADWELL" LARYNGOSCOPE, with infant's size blade and battery handle, chromium plated, complete with battery and lamp .. .. .. each

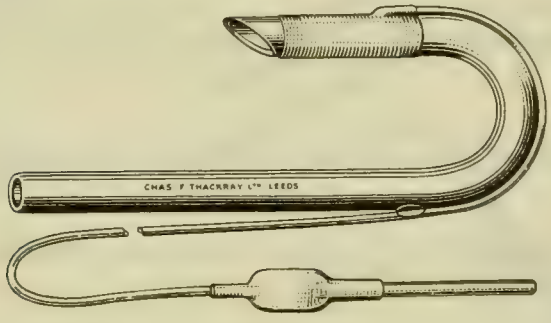
*AD4669 Ditto .. but with infant's and child's size blades, and battery handle, chromium plated, complete with battery and lamp .. .. each

AD4670 Spare Blades only, chromium plated, infant's and child's size .. .. each

†AD4671 Spare Lamps for above, 8B.A. .. .. each

**Not illustrated*

†*When ordering please state size required*



AD4672

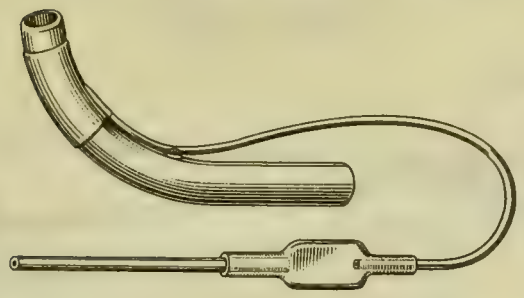
‡AD4672 BROWNLIE'S TRACHEOTOMY TUBE, rubber, for total laryngectomy, with fixed inflation cuff and pilot balloon. Three sizes: 8, 9 and 10 Magill's Tube Gauge (32, 36 and 42 French Catheter Gauge—*see page* G25) .. .. each

‡*Dr. D. G. Brownlie (Redcar) writes:*

This is an intra-tracheal tube for use during total laryngectomy after division of the trachea. The shape of the tube allows it to lie comfortably in the trachea and prevents other anaesthetic tubing or connections interfering with the operation field.

ADDENDA

GENERAL OPERATION INSTRUMENTS
ANÆSTHETIC ACCESSORIES



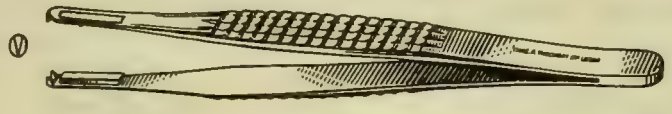
AD4673

Cat. No.

AD4673 BULBAR TRACHEOTOMY TUBE, rubber, with fixed inflation cuff and pilot balloon, designed for use in artificial ventilation, sizes: 1 to 12 †Magill's Tube Gauge (20 to 34 French Catheter Gauge) .. .. each

† *Actual sizes, see Page* G25.

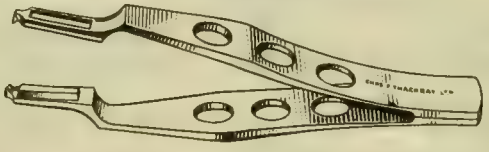
DISSECTING FORCEPS



AD4598

AD4598 CHARNLEY'S DISSECTING FORCEPS, with one into two teeth and block on jaw, 5¾ in., stainless steel .. .. each

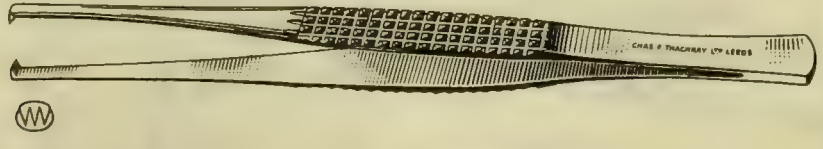
Description of use: see fig. G323 *or* G819.



AD4674

AD4674 CHARNLEY-JEAN'S DISSECTING FORCEPS, with one into two teeth and block on jaw, 5½ in., stainless steel .. .. each

*AD4675 Ditto .. 7 in. .. .. each



AD4676

AD4676 PYRAH'S modified LANE'S DISSECTING FORCEPS, with roughened handles and three into four teeth, 9 in., stainless steel .. .. .. each

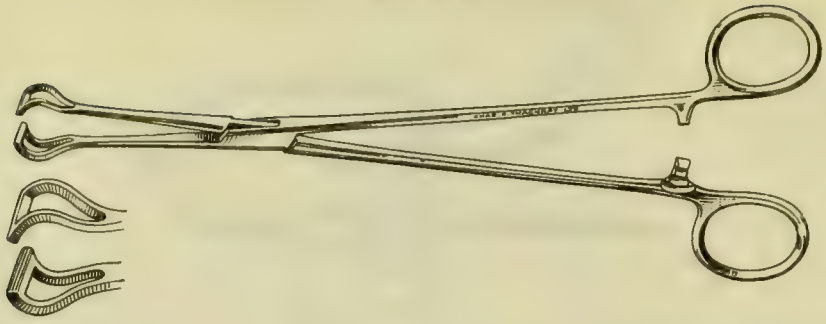
Professor L. N. Pyrah writes: "It is for use in the dissection of deep cavities, particularly the pelvis, e.g. in total cystectomy procedures."

* *Not illustrated.*

ADDENDA

GENERAL OPERATION INSTRUMENTS

TISSUE FORCEPS

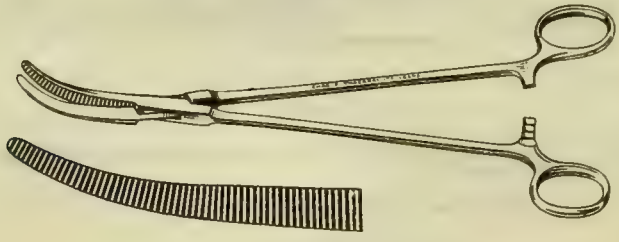


AD4677

Cat. No.

AD4677 BABCOCK'S TISSUE FORCEPS, box-joint, 9 in., stainless steel each
(see page G53) .. ..

ARTERY FORCEPS

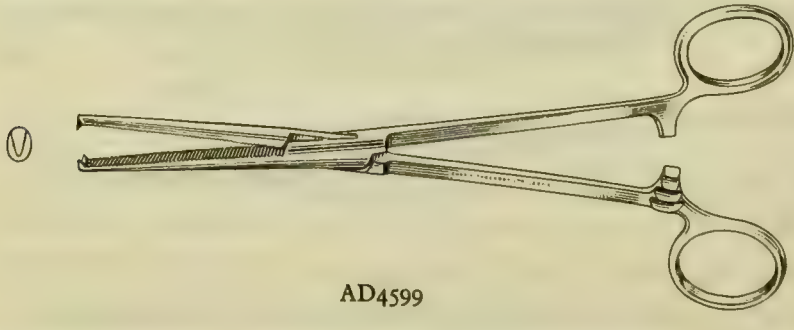


AD4678

AD4678 LLOYD-DAVIES' ARTERY FORCEPS, curved-on-flat, box-joint, 10 in., stainless steel .. .. each

*AD4679 DUNHILL'S ARTERY FORCEPS, curved-on-flat, box-joint, 5 in., stainless steel (see page G59) .. .. each

*AD4680 FRASER-KELLY'S ARTERY FORCEPS, straight, box-joint, 7 in., stainless steel (see page G59) .. .. each



AD4599

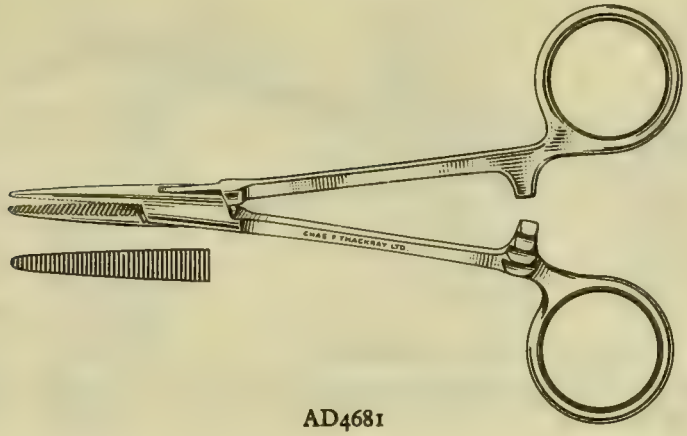
AD4599 KOCHER'S ARTERY FORCEPS, box-joint, 8 in., stainless steel .. each

AD4599A Ditto .. 9 in. .. .. each

**Not illustrated*

GENERAL OPERATION INSTRUMENTS

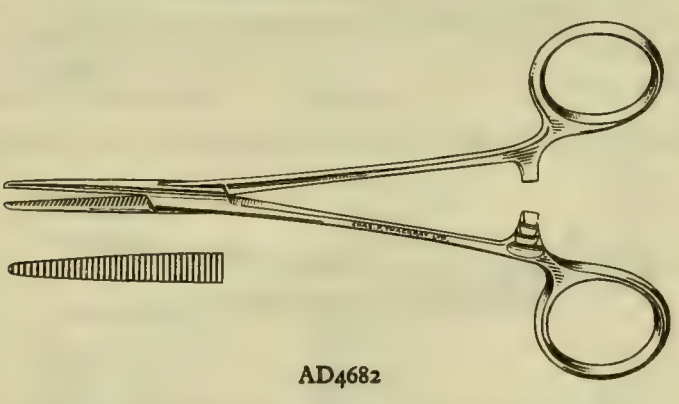
ARTERY FORCEPS



AD4681

Cat. No.

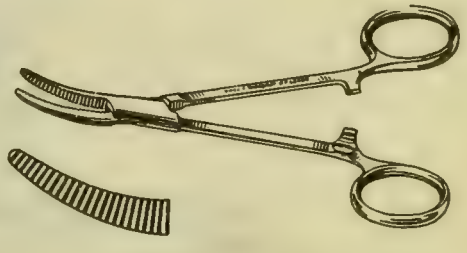
AD4681 "LEICESTER" PATTERN ARTERY FORCEPS, straight, box-joint, 5¾ in., stainless steel .. .. each



AD4682

AD4682 ST. GEORGE'S HOSPITAL PATTERN ARTERY FORCEPS, straight, box-joint, 5¾ in., stainless steel .. .. each

AD4600 SPENCER WELLS' ARTERY FORCEPS, curved-on-flat, box joint, 5 in., stainless steel .. each
AD4601 Ditto .. box joint, 6 in. each
AD4602 Ditto .. box joint, 7 in. each
AD4603 Ditto .. box joint, 8 in. each
AD4604 Ditto .. box joint, 9 in. each
*AD4605 SPENCER WELLS' ARTERY FORCEPS, straight, screw joint, 9 in., stainless steel .. each
*AD4606 Ditto .. box joint .. each
AD4605 and AD4606 also appear as G468A and G472A.

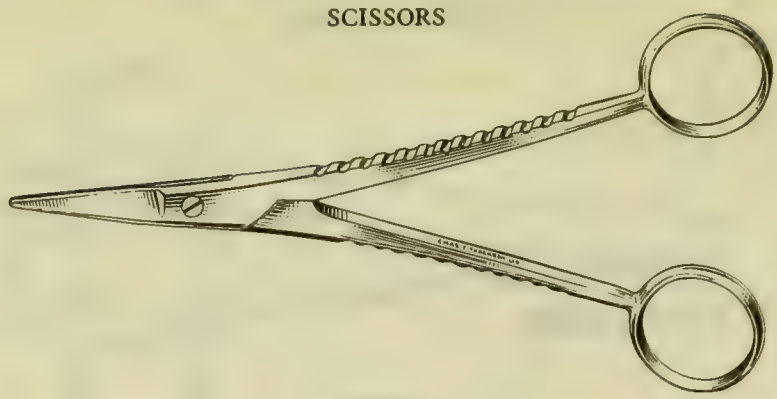


AD4600

** Not illustrated*

GENERAL OPERATION INSTRUMENTS

SCISSORS



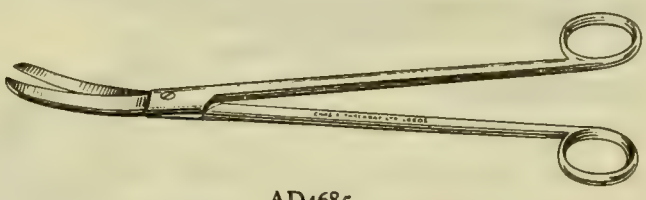
Cat. No. AD4683

AD4683 DENIS BROWNE'S SCISSORS, straight, with fine blunt points, open shanks, 6½ in., stainless steel .. .. each



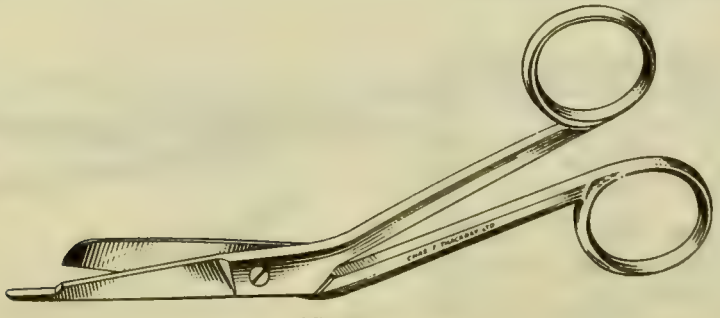
AD4684

AD4684 LLOYD-DAVIES' SCISSORS, straight, with blunt points, 10 in., stainless steel, each



AD4685

AD4685 LLOYD-DAVIES' SCISSORS, curved-on-flat, with blunt points, 10 in., stainless steel .. .. each



AD4686

AD4686 "SHEFFIELD" PATTERN BANDAGE SCISSORS, angled-to-side, with fine probe point on lower blade, 6 in., stainless steel .. .. .. each

ADDENDA

GENERAL OPERATION INSTRUMENTS

RETRACTORS

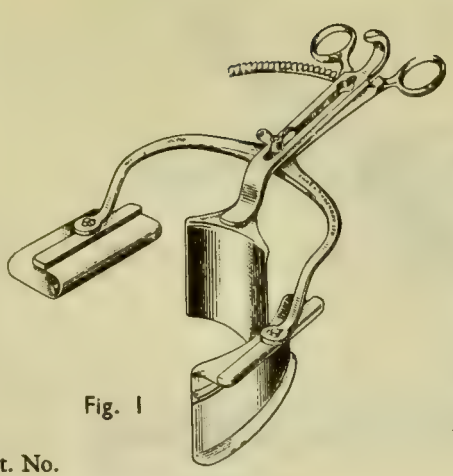


Fig. 1

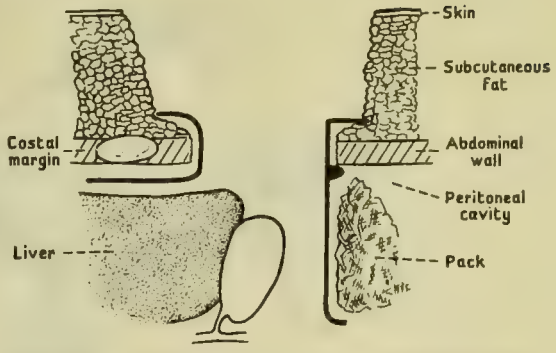


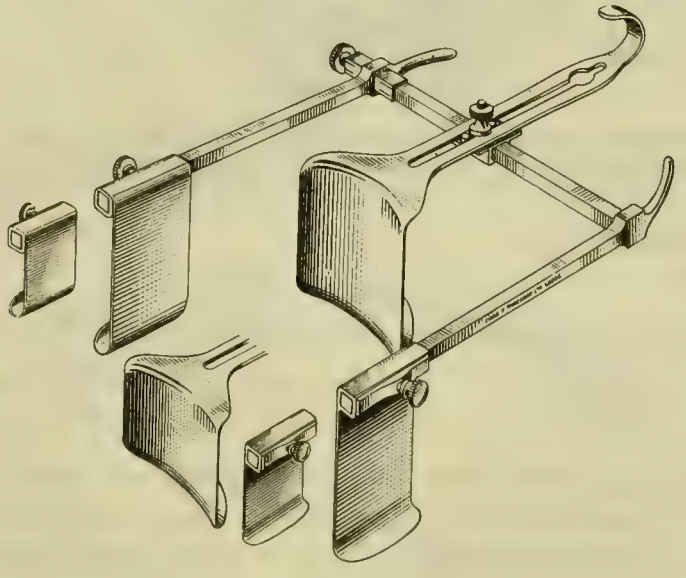
Fig. 2—Diagram showing how the two main blades of the retractor are placed.

AD4687

Cat. No.

AD4687 BENNETT-JONES' RETRACTOR for cholecystectomy, self-retaining, with adjustable third blade, stainless steel .. .. each

Originally described in "The Lancet", October 22nd, 1955, page 854, Mr. M. J. Bennett-Jones, Ch.M., F.R.C.S. (United Liverpool Hospitals), emphasises its usefulness in very fat patients. He writes that the retractor is best used with a Kocher incision; the shafts of all blades are cranked to bring the handles clear of the subcutaneous fat and skin.



AD4688

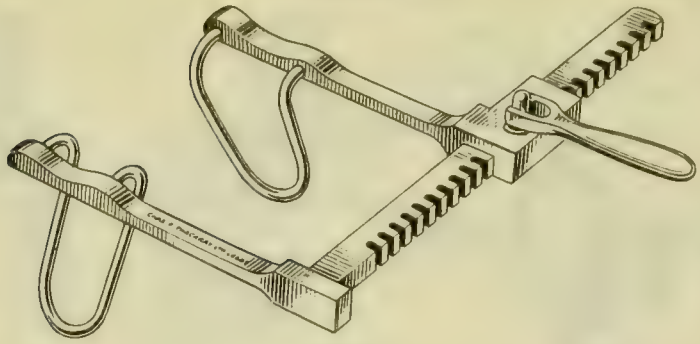
†AD4688 GOLIGHER'S modified BERKELEY'S RETRACTOR for lower abdomen, self-retaining, with two of each two sizes detachable lateral blades, and two sizes adjustable third blades, stainless steel .. .. each

†*Used for rectal excision.*

ADDENDA

GENERAL OPERATION INSTRUMENTS

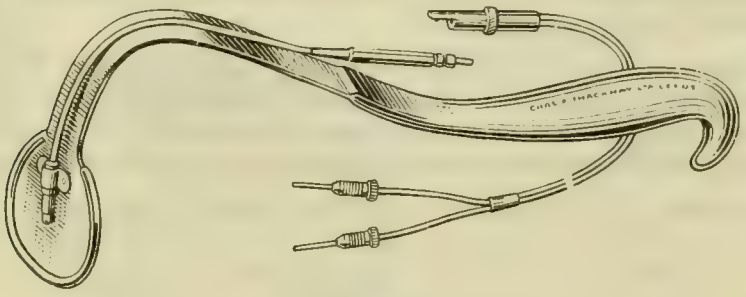
RETRACTORS



AD4689

Cat. No.

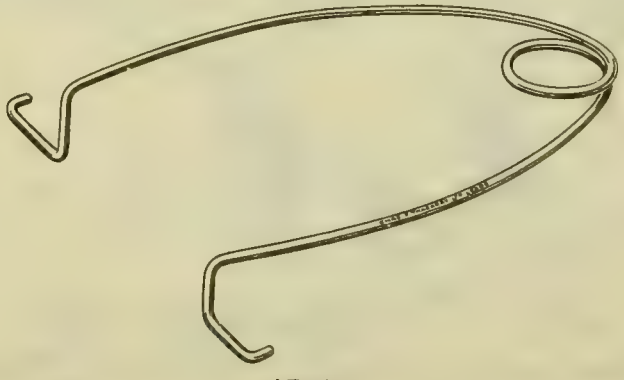
AD4689 McKEOWN'S modified GOSSET'S RETRACTOR, self-retaining, with FINOCHIETTO'S lever device, blades 2⅜ in. deep by 1¾ in. wide, stainless steel .. .. each



AD4607

AD4607 MAINGOT'S modified HARRINGTON'S RETRACTOR, with mirror finish spatulate blade, detachable light carrier (boilable), lamp and rubber covered cables, stainless steel blade and shaft, chromium plated shaped hollow handle, complete

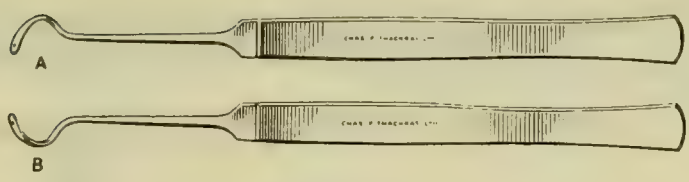
AD4608 Spare Lamps, 3·5 volts .. .. each



AD4690

AD4690 "NEW ZEALAND" PATTERN RETRACTOR, self-retaining, stainless steel, each

MISCELLANEOUS INSTRUMENTS

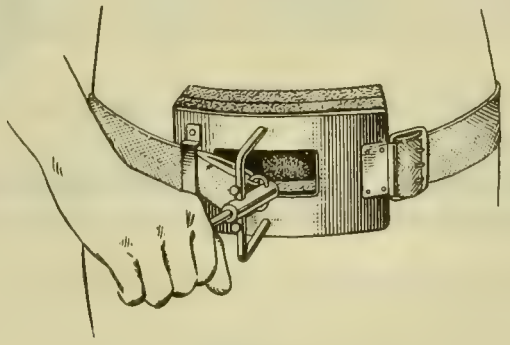


AD4691-2

Cat. No.

AD4691 "NEWCASTLE" PATTERN ANEURYSM NEEDLE, (A) curved to right, 5½ in., stainless steel .. .. each

AD4692 Ditto .. (B) curved to left .. .. each



AD4693

†AD4693 CAMPBELL'S COUGH PROTECTOR, lightweight aluminium, with thick felt pad, quick-action lever and webbing strap .. .. .. each

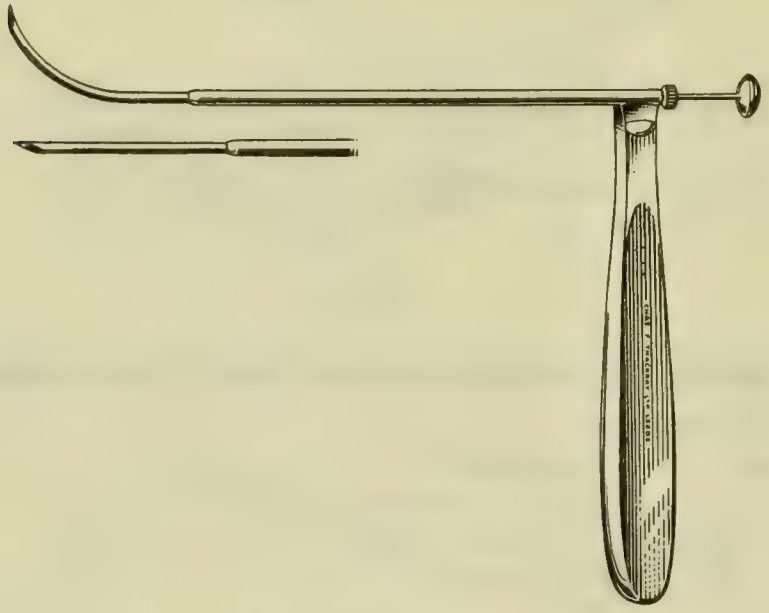
†*Designed for use during the post-operative phase following abdominal operations to encourage the patient to cough, and by relieving pain, to protect the wound. The belt loosely encircles the lower thorax, and when a cough seems imminent the patient is able to tighten the belt and fix the epigastrium by a simple movement of the quick-action lever.*

Vide: "*British Medical Journal*", *26th July*, 1952, *page* 226;
"*Peptic Ulcer*" (*E. & S. Livingstone Ltd.*, 1953) *by Prof. C. F. W. Illingworth*, *page* 170.

ADDENDA

GENERAL OPERATION INSTRUMENTS

MISCELLANEOUS INSTRUMENTS

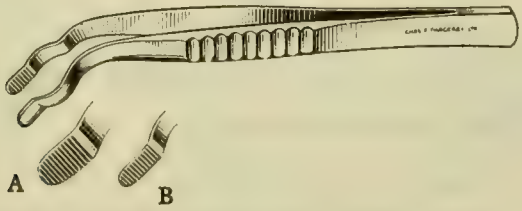


AD4694-5

Cat. No.

AD4694 RADON SEED INTRODUCER, curved, with blunt pusher, stainless steel on chromium plated hollow handle .. .. each

AD4695 Ditto .. straight .. .. each



AD4696-7

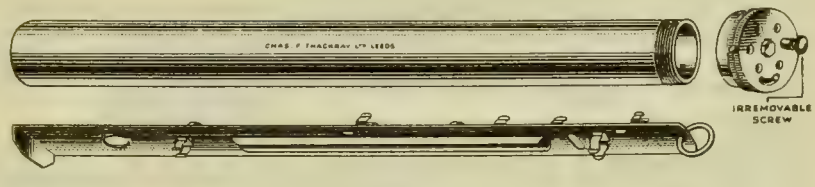
*AD4696 "WELBECK" PATTERN NEEDLE and SYRINGE HOLDING FORCEPS, with broad jaws (A), 5¾ in., stainless steel .. .. each

AD4697 Ditto .. with narrow jaws (B) .. .. each

**Also useful for manipulating catheters during introduction*

GENERAL OPERATION INSTRUMENTS

MISCELLANEOUS INSTRUMENTS



AD4698

Cat. No.

†AD4698 STERILIZING TUBE for Greenfield's Spinal Manometer, consisting of tube fitted with rack, chromium plated (to take manometer, needles and 2ml. syringe) .. .. each

The screw-fitting cap has a perforated top which can be occluded by a shutter arrangement, which can be locked by a thumb-screw in the "open" or "closed" position, and the apparatus is kept ready for immediate use. For sterilization by autoclave *only*.

NOTE.—When locked, shutter cannot be accidentally opened or closed.

*AD4698A Ditto .. simple pattern, with light-weight metal tube and push-on fitting cap, with opposing perforations which can be occluded. Nickel plated .. each

†*See pages* V540 *and* C679 *for Manometers*



AD4699

AD4699 STERILIZING TUBE for Skin Grafting Knives, consisting of chromium plated metal tube with push-on-fitting cap .. .. each

This unperforated container is for hot-air sterilization only and enables knives to be kept ready for immediate use. Longitudinal ribs prevent it rolling on the table.

**Not illustrated*

ADDENDA

GENERAL OPERATION INSTRUMENTS

Cat. No.

AD4657A **AC.10 SURGICAL INSTRUMENT PRESERVATIVE** .. ..per 1 gallon can
.. ..per 1 pint can

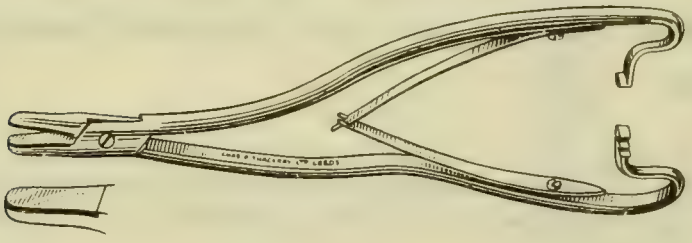
AC.10 Surgical Instrument Preservative is a complex hydrocarbon fluid containing chemically combined corrosion inhibitors. Being an oily fluid it can be used as a lubricant-protective for all metal surgical instruments.

It is particularly useful in the sterilization of cutting instruments such as cataract knives, scalpels, chisels, etc., which may safely be boiled in an emulsion prepared by adding 2 per cent by volume of AC.10 to a solution of 2 per cent w/v crystalline sodium carbonate in water, without impairing the fine cutting edge of these instruments.

Leaflet giving comprehensive details available on request.

Vide "The Corrosion of Sharp-edged Ophthalmic Instruments", Proc: Roy. Soc. Med. June 1945, *Vol. xxxviii, No.* 8, *pp.* 465-469 (*Section of Ophthalmology, pp.* 27-31).

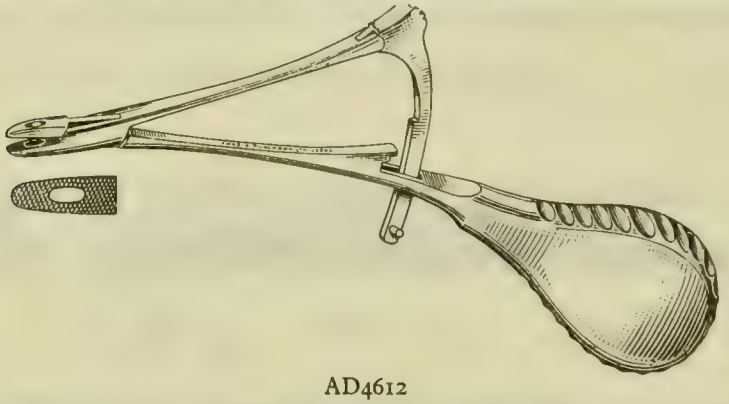
NEEDLE HOLDERS



AD4611

AD4611 NEEDLE HOLDER, with copper-lined jaws and bayonet shaped shanks, screw joint, 7½ in., stainless steel .. .. each

Particularly useful in vaginal plastic work, for the needle can be conveniently inserted and withdrawn without changing one's grip.



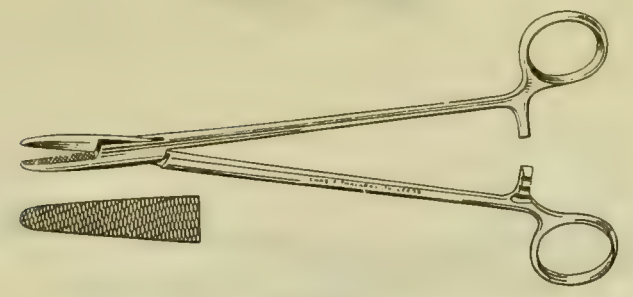
AD4612

AD4612 DENIS BROWNE'S NEEDLE HOLDER, with fenestrated jaws and trigger release, box joint, 8 in., stainless steel, chromium plated handle .. .. each

This instrument is designed for use with highly curved (¾ circle) needles (see page S778, *figs.* S4303-5). *With this curve, needles cannot be thrust through the tissues but must be "screwed-in", by a rotation of the forearm. To do this, it is necessary that the instrument projects straight forward in line with the forearm when held naturally. Almost all other designs of needle holders project radically at an angle of* 45 *degrees. The other fundamental point of design is that the catch can be released by a touch on the trigger without jarring or twisting the needle, whatever the position of the holder. The more delicate the stitching, the more important this becomes.*—Mr. Denis Browne, F.R.C.S.

GENERAL OPERATION INSTRUMENTS

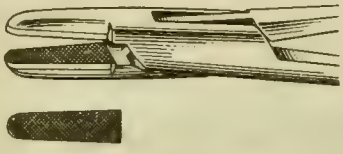
NEEDLE HOLDERS



AD4700

Cat. No.

AD4700 LLOYD-DAVIES' NEEDLE HOLDER, box-joint, 10 in., stainless steel, each



G804TC



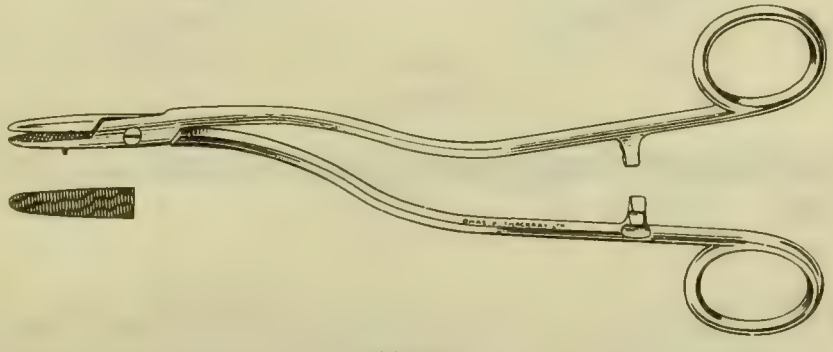
G805TC

G804TC MAYO'S NEEDLE HOLDER, box-joint, 7½ in., stainless steel, *jaws fitted with Tungsten Carbide inserts* .. .. each

G805TC Ditto .. light pattern, 6 in. .. .. each

See page G127 *for complete illustrations.*

†*The tungsten carbide facings on the jaws of these needle holders provide extremely hard finely-serrated surfaces which minimise rotation of the suture needle and ensure a positive grip. Other patterns of needle holders can be similarly treated—details on request.*



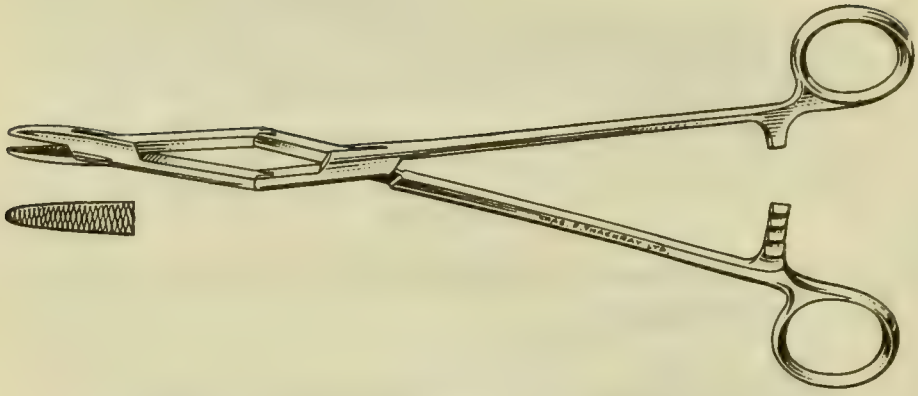
AD4711

AD4711 MOGG'S modified THOMPSON-WALKER'S NEEDLE HQLDER, with fine jaws, screw-joint, 8 in., stainless steel .. .. each

ADDENDA

GENERAL OPERATION INSTRUMENTS

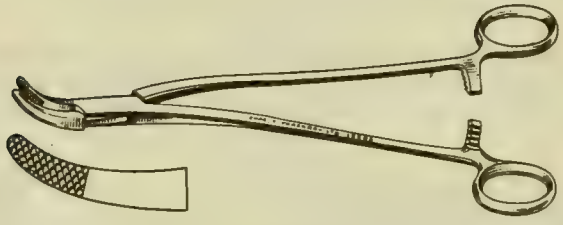
NEEDLE HOLDERS



AD4712

Cat. No.

AD4712 NAUNTON MORGAN'S NEEDLE HOLDER, compound action joint, 10 in., stainless steel .. .. each



AD4613

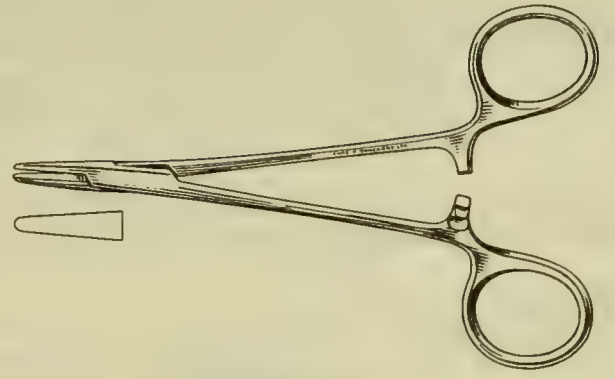
*AD4613 "MULTICURVE" NEEDLE HOLDER, box joint, 9 in., stainless steel, each

*AD4613A Ditto .. 6½ in. .. .. each

**These needle holders have laterally curved shanks and curved-on-flat jaws: a design which enables the operator to have a less obstructed view of the needle when working at depth. The "multicurve" also tends to follow the natural twist of the wrist when using a curved needle.*

GENERAL OPERATION INSTRUMENTS

NEEDLE HOLDERS

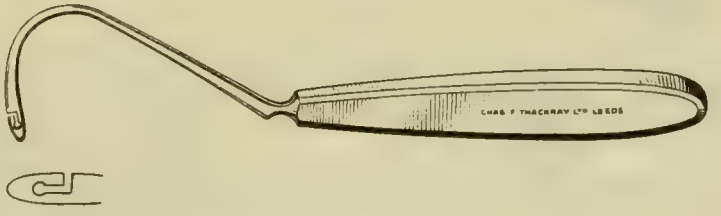


AD4713

Cat. No.

AD4713 WEBSTER'S NEEDLE HOLDER, with plain jaws, box-joint, 5 in., stainless steel .. .. each

*AD4714 Ditto .. CONVERSE'S PATTERN with longitudinally serrated jaws, box-joint, 5 in., stainless steel .. .. each



AD4614

AD4614 CHAMBERLAIN'S ANEURYSM NEEDLE, stainless steel, chromium plated handle .. .. each

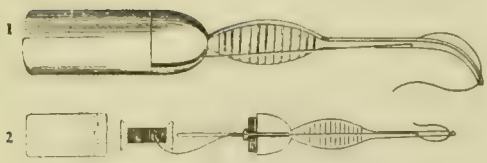
The eye of this instrument is so made that it can pick-up thread or catgut without having to be threaded. Particularly useful for abdominal work, especially partial gastrectomy, for ligaturing the omentum.

**Not illustrated*

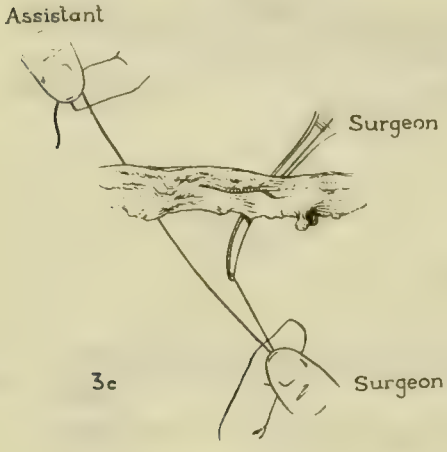
ADDENDA

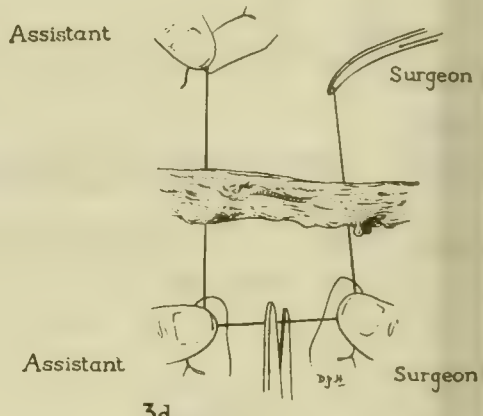
GENERAL OPERATION INSTRUMENTS

TIBBS' CONTINUOUS-FEED ANEURYSM NEEDLE









3d.





AD4615

Cat. No.

†AD4615 TIBBS' CONTINUOUS-FEED ANEURYSM NEEDLE, *improved pattern*, stainless steel, chromium plated handle and spare reel, in card box .. complete

†AD4616 Spare Reels .. .. each

Mr. D. J. Tibbs, F.R.C.S., first assistant, Department of Surgery, King's College, University of Durhan writes: "In principle the device illustrated here is simply an aneurysm needle mounted on a hand containing a spool of thread (Figs. 1 and 2), so that the 'needle' can be used repeatedly without re-threadir or leaving the operator's hands. It has been found of great value when a number of long, easily surrounde vessels are to be tied--for example, during gastrectomies and colectomies. Here, by the 'aneurysm need technique' a number of vessels are swiftly tied without the use of artery forceps; for instance, all th

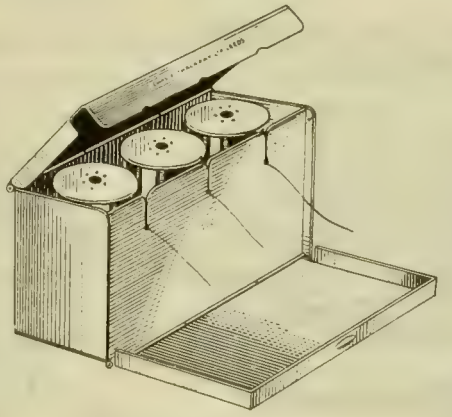
Description continued overle

TIBBS' ANEURYSM NEEDLE (description continued)

gastroepiploic branches and short gastric vessels may be tied in one sequence by passing the thread under them, double ligation, and division between the ligatures (Figs. 3a and 3b). A double ligature, permitting surgeon and assistant to tie simultaneously, is easily introduced (Figs. 3c and 3d).

"The other great use is found in the facility with which a series of artery forceps in a cavity may be tied off. Deeply placed forceps have the thread introduced over their points accurately and easily, leaving the aneurysm needle ready primed for immediate use on the next one. A series of deep ligatures present no difficulty and can be tied with a smooth repetitive action of the aneurysm needle. In this respect the instrument has been particularly useful in pelvic, upper abdominal and thoracic operations (Fig.4). Routine tying of every description can be performed, the instrument being used in the same manner as the 'egg' type of spool carrier (Fig. 5 illustrates this use). The material usually used on the spool is 60-gauge thread, but alternative spools may be substituted with little delay."—*Vide "B.M.J.", Nov. 29th, 1952, page 1201. Reprinted by kind permission of the Editor of the "British Medical Journal".*

†*At the suggestion of Dr. J. D. Macgregor (Medical Officer, Magburaka Hospital, Sierra Leone), the spool is now a standard bobbin as used in a sewing machine, replacements being readily obtainable. To facilitate smooth and continuous unwinding of the thread in use, the bobbin is now mounted transversely.*



AD4617

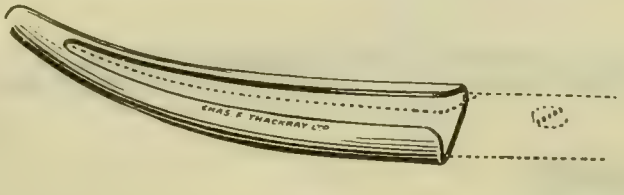
Cat. No.

AD4617 STERILIZER BOX, with two hinged lids and complete with three metal reels for suture silk, chromium plated .. .. complete

AD4618 Ditto .. with six reels .. .. complete

AD4618A Spare Reels .. .. each

Different sizes of silk can be loaded into this box, boiled or autoclaved ready for use. The silk is fed through slots to be cut to the required length.



AD4619

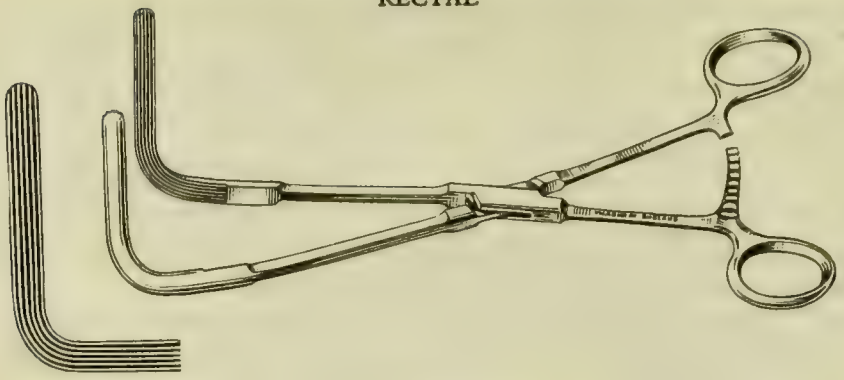
AD4619 LLOYD-DAVIES' SHIELDS, stainless steel, two patterns: fenestrated on inner curve and fenestrated on outer curve, for use with Parker-Kerr's Clamps, 9 in., c.o.f. *only* (page G168, fig. G1031), used in pairs .. .. per pair

These are used as aseptic protection shields to cover over the bowel held in the clamp during resection operations; it is an additional safeguard against soiling the peritoneum.

ADDENDA

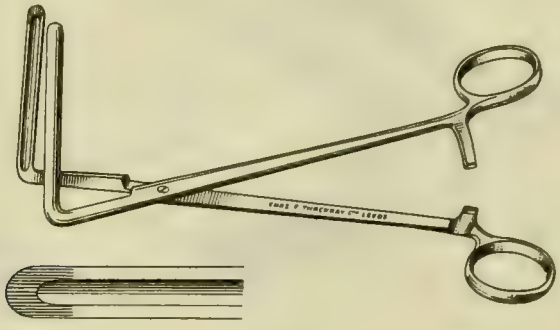
GENERAL OPERATION INSTRUMENTS

RECTAL



AD4715

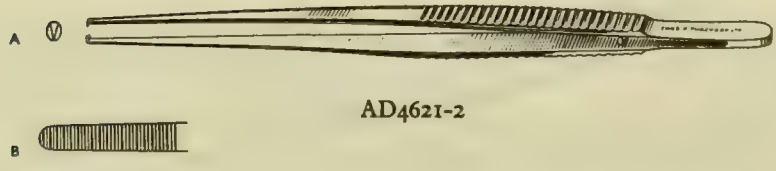
Cat. No.
AD 4715A LLOYD-DAVIES' RECTAL EXCISION CLAMP, with angled 2⅜ in. jaws, box joint, 12 in., stainless steel.



AD4620

AD4620 FINCH'S RECTAL OR COLON EXCISION CLAMP, with angled 3⅛ in. blades, screw joint, 9 in., stainless steel .. .. each

Modelled on the principle of Schoemaker's Gastrectomy Forceps, these clamps are used in pairs in excision of the rectum or colon. They do not slip off and thereby prevent contamination of the wound.



AD4621-2

AD4621 ST. MARK'S HOSPITAL PATTERN DISSECTING FORCEPS, with one into two teeth, 11½ in., stainless steel .. .. each

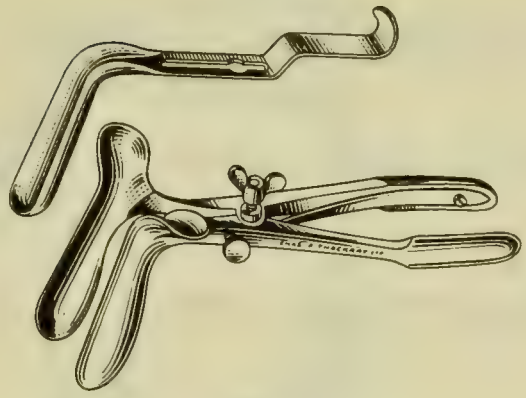
AD4622 Ditto .. with non-toothed serrated jaws .. .. .. each

For use in the abdomino-perineal operation for resection of the rectum.

ADDENDA

GENERAL OPERATION INSTRUMENTS

RECTAL



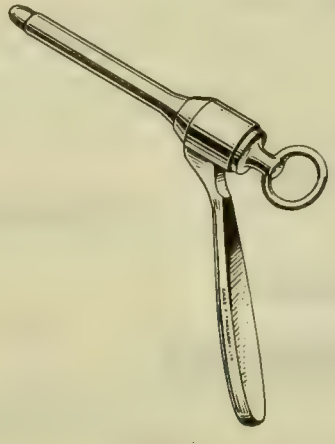
AD4716

Cat. No.

AD4716 GOLIGHER'S RECTAL SPECULUM, for internal anal sphincterotomy, chromium plated with third anterior blade, stainless steel .. .. each

Designed primarily for internal sphincterotomy, this speculum affords ideal exposure for other rectal operations, such as removal of hypertrophied anal papillæ under local anæsthesia, diathermy of benign tumours of the extreme lower end of the rectum and submucosal hæmorrhoidectomy by Parks' technique ("British Journal of Surgery", 1956, Vols. 43, 337). The opening of the lateral blades can be adjusted by a simple distraction screw; the third (anterior) blade is fitted to provide complete access to the posterior wall and fissure.

Vide: "The Lancet", April 19th, 1958, pages 831-832.



AD4717

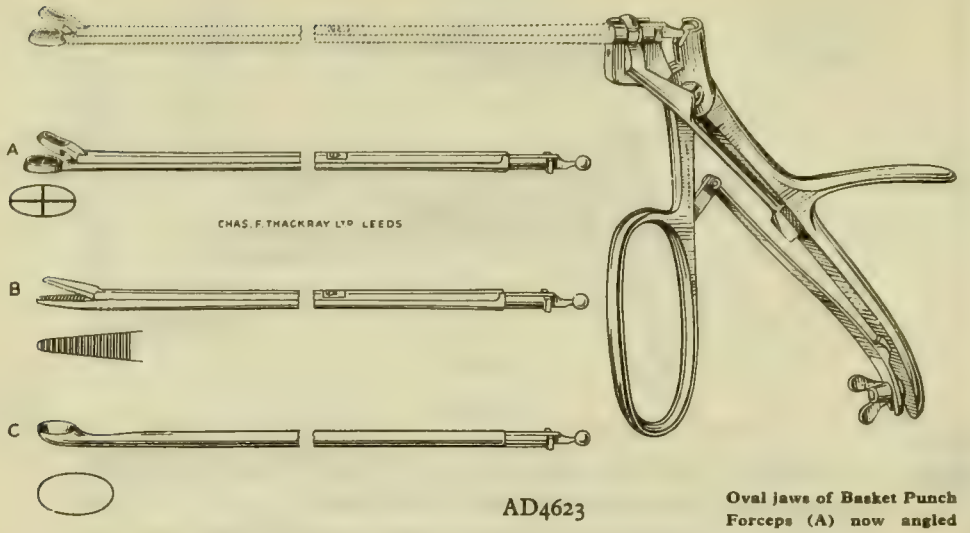
AD4717 LLOYD-DAVIES' SIGMOIDOSCOPE TUBE for infants, with obturator, 7·5 cm. long by 9·5 mm. diameter, chromium plated .. .. .. each

NOTE.—The above instrument can be used in conjunction with the Lloyd-Davies' combined Sigmoidoscope Set (Cat. No. G942), as it will take the Universal Proximal Light Projector with detachable Inflation Window, also the Telescope Attachment (Cat. No. G945).

ADDENDA

GENERAL OPERATION INSTRUMENTS

RECTAL



AD4623

Oval jaws of Basket Punch Forceps (A) now angled upwards

Cat. No.

AD4623 NAUNTON MORGAN'S UNIVERSAL RECTAL FORCEPS, consisting of universal handle, basket punch forceps (A) *fixed* to shaft, grasping forceps (B) *fixed* to shaft and scoop end (C) *fixed* to shaft, all parts of stainless steel, complete

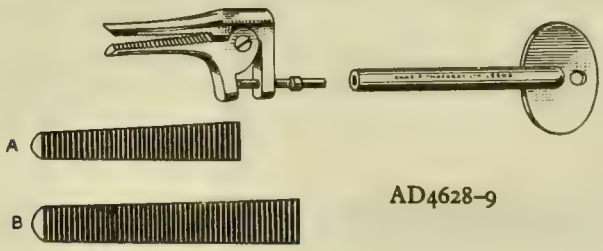
AD4624 Universal Handle only .. .. each

AD4625 Basket Punch Forceps (A) *fixed* to shaft .. .. each

AD4626 Grasping Forceps (B) *fixed* to shaft .. .. each

AD4627 Scoop (C) *fixed* to shaft .. .. each

INTESTINAL



AD4628–9

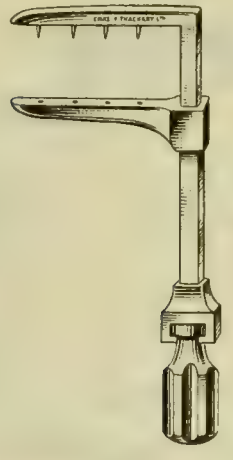
AD4628 GROSS' CRUSHING CLAMP, original size (A), complete with key, stainless steel .. .. each

For cutting down spurs of a double ileostomy by the Mikulicz technique. "The Surgery of Infancy and Childhood", pages 60, 161, 183–5, by Robert E. Gross, M.D., D.Sc.

AD4629 GROSS' CRUSHING CLAMP, larger size (B), complete with key, stainless steel .. .. each

GENERAL OPERATION INSTRUMENTS

INTESTINAL

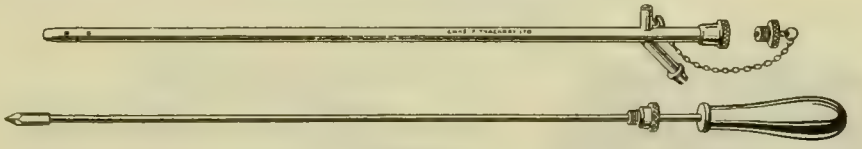


AD4718

Cat. No.

AD4718 "YORKHILL" ENTEROTOME, stainless steel .. .. .. each

As used at the Royal Hospital for Sick Children, Yorkhill, Glasgow.

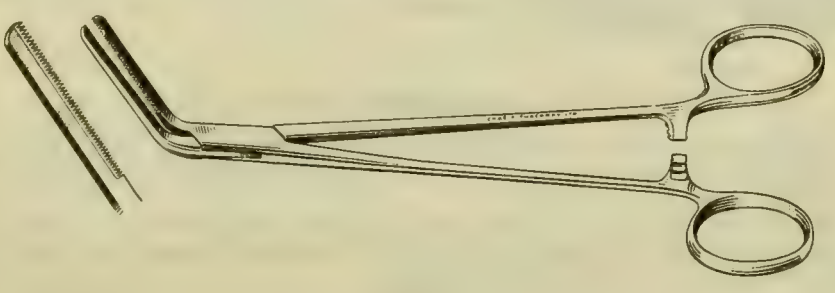


AD4719

†AD4719 SAVAGE'S INTESTINAL DECOMPRESSOR, with stainless steel trocar and chromium plated cannula, 5/16 in. external diameter.. .. .. each

†*Designed for decompression of distended bowel at operation in cases of small bowel obstruction. The whole of the small bowel may be threaded over the cannula, suction being applied by means of the angled side-arm and controlled with thumb over the side-vent.*

Vide: "*Proceedings of the Royal Society of Medicine*", *Vol.* 51, *No.* 7, *July* 1958, *pages* 507–508; "*British Journal of Surgery*", *Vol.* 47, *No.* 206, *May* 1960, *pages* 643–654



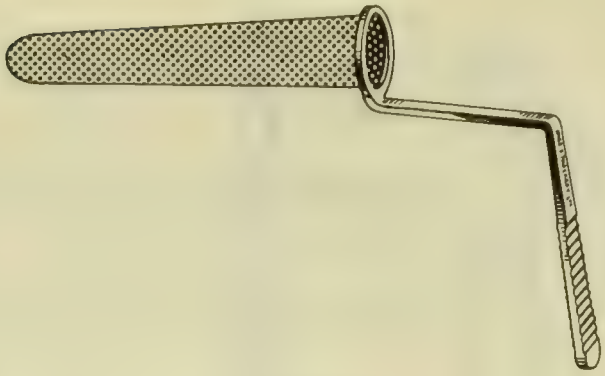
AD4720

AD4720 RICKHAM'S modified POTTS' DUCTUS CLAMP, jaws angled-on-flat, box-joint, 7 in., stainless steel .. .. each

ADDENDA

GENERAL OPERATION INSTRUMENTS

ABDOMINAL



AD4721

Cat. No.

†AD4721 HIGHLANDS HOSPITAL PATTERN modified DENIS BROWNE'S SUMP, chromium plated .. .. each

†*See also Cat. No.* G1060.

THE SCHACHT COLOSTOMY APPLIANCE

U.K. Patent No. 831,624



AD4722

ADVANTAGES INCLUDE . . .

SECURITY Positive seal—no danger of leakage.

COMFORT Soft foam sponge ring protects abdomen from chafing and irritation.

HYGIENIC Disposable polythene bag is easily and quickly changed.

INCONSPICUOUS Light, compact appliance.

Devised by a Colostomy Patient for Colostomy Patients.

DESCRIPTION

This appliance consists of five easily assembled parts—soft foam sponge ring, flanged plastic supporting ring, plastic lock ring (with hooks for belt), disposable polythene bag and an elastic belt.

The polythene bag is inserted through the sponge assembly, folded back over the sponge and secured by the locking ring. This arrangement prevents the sponge from being soiled ensuring *complete cleanliness*.

The appliance is finally clipped to the belt and adjusted into position on the body. It provides *complete security* as the belt can be worn tightly without discomfort.

Fully descriptive leaflet available on request.

ADDENDA

GENERAL OPERATION INSTRUMENTS

ABDOMINAL

How To Assemble The Schacht Appliance

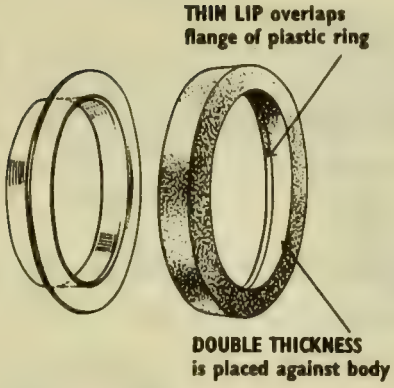


Fig. 1

Fit thinner lip of sponge ring over flange of plastic ring.

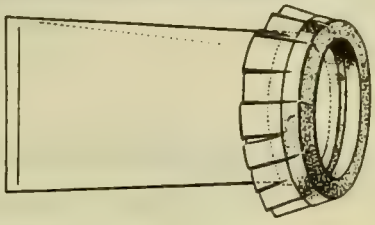


Fig. 2

Insert polythene bag through sponge assembly. The protruding plastic rim faces bottom of bag. Fold about 3 in. of the open end of bag back over sponge.

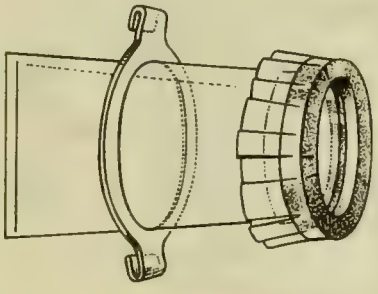


Fig. 3

Slide locking-ring (clip ends facing bottom of bag) over bag up to sponge, making sure that part of bag turned back is secured under ring.

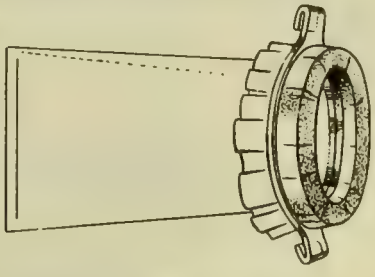


Fig. 4

Completed assembly. Metal clips of belt are secured to hooks on locking ring. Adjust belt until it fits snugly to ensure full protection while body is moving.

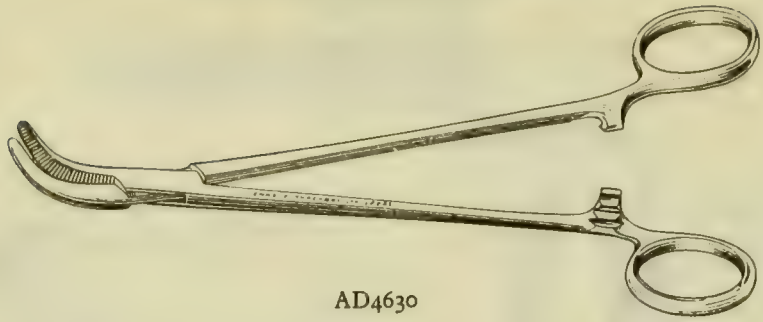
Cat. No.		
AD4722	SCHACHT'S COLOSTOMY APPLIANCE, as described, complete with spare foam sponge ring and 100 disposable polythene bags ..	complete
AD4723	Spare POLYTHENE BAGS	per 100
AD4724	Spare FOAM SPONGE RINGS	each
AD4725	Spare PLASTIC RING, with flange	each
AD4726	Spare PLASTIC LOCKING RING	each
AD4727	Spare BELT	each

All parts replaceable.

Vide: "SURGERY, Gynaecology & Obstetrics," July, 1960, vol. 3, pages 113–115

ADDENDA

GENERAL OPERATION INSTRUMENTS
GALL BLADDER AND LIVER

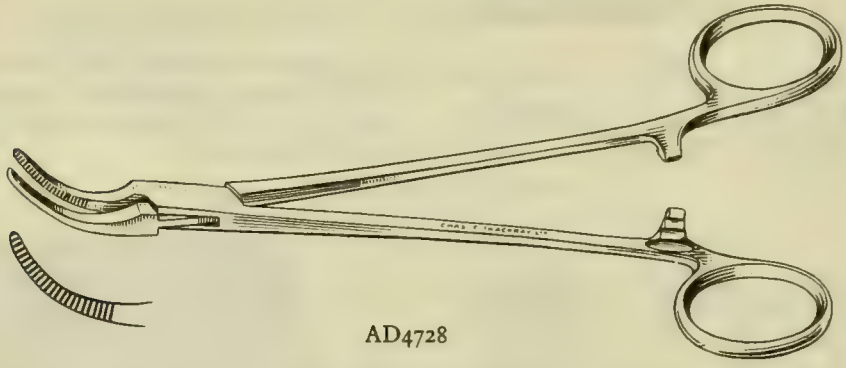


AD4630

Cat. No.

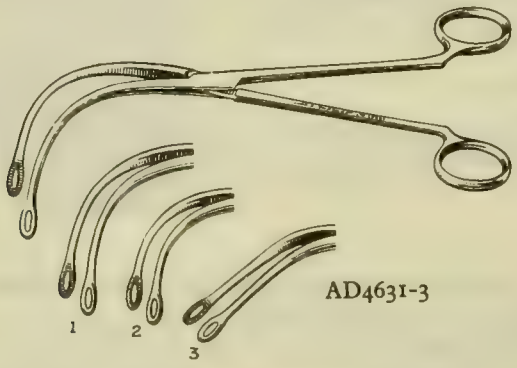
AD4630 MOYNIHAN'S CHOLECYSTECTOMY FORCEPS, curved-on-flat, box joint, $8\frac{1}{2}$ in., stainless steel .. .. each

This has exactly the same jaws as G1066 *but with a box joint.*



AD4728

AD4728 WILKIE'S CHOLECYSTECTOMY FORCEPS, curved-on-flat, box joint, $7\frac{1}{2}$ in., stainless steel .. .. each



AD4631-3

AD4631 BLACKBURN'S COMMON DUCT FORCEPS, large curve (1) box joint, 8 in., stainless steel .. .. each

AD4632 Ditto .. small curve (2), $7\frac{1}{4}$ in. .. .. each

AD4633 Ditto .. angled (3), $8\frac{1}{4}$ in. .. .. each

The varying curves of these forceps allow exploration of the common bile duct both upwards and downwards, the less acute angle being of particular advantage in the hepatic ducts. The small eye, relatively short blade and absence of ratchet render damage and fragmentation of stones unlikely.

ADDENDA

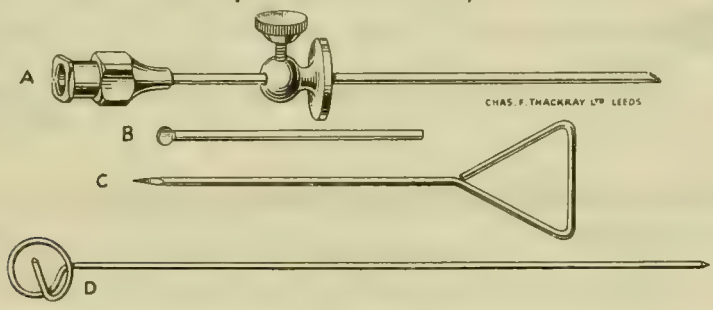
GENERAL OPERATION INSTRUMENTS
GALL BLADDER AND LIVER



AD4729

Cat. No.		
†AD4729	BAKES' DILATORS, modified pattern for trans-duodenal sphincterotomy, as made for Mr. Rodney Smith, two sizes, 4 mm. and 8 mm. diameter by 7 in. long, malleable shaft, chromium plated	set
†AD4730	Ditto .. two sizes 12 in. long for obese patients	set

†*See also Cat. No.* G1071.

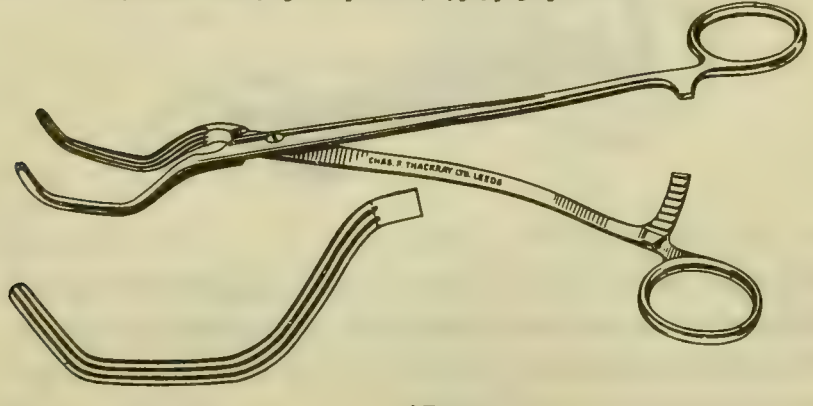


AD4731–8

AD4731	MENGHINI'S LIVER BIOPSY NEEDLE, stainless steel, size 70 mm.× 1·90 mm., 45 degree point, *Sliding "stop", Luer-locking mount (A), blocking pin (B), trocar for preliminary skin perforation (C) and wire stilette (D)	Set complete
AD4732	Ditto .. needle size: 70 mm.× 1·60 mm.	Set
AD4733	Ditto .. needle size: 70 mm.× 1·40 mm.	Set
AD4734	Ditto .. needle size: 70 mm.× 1·20 mm.	Set
AD4735	Ditto .. needle size: 70 mm.× 1·00 mm.	Set
AD4736	Ditto .. for pediatric use, needle size: 40 mm.× 1·40 mm. ..	Set
AD4737	Ditto .. for pediatric use, needle size: 40 mm.× 1.20 mm. ..	Set
AD4738	Ditto .. for pediatric use, needle size: 40 mm.× 1·00 mm. ..	Set

**Supplied only with largest size, Cat. No.* AD4731.

NOTE: Luer-locking mount and "stop" gold plated. For a technical description of use, vide: Lancet, 13th September, 1958, page 560.



AD4634

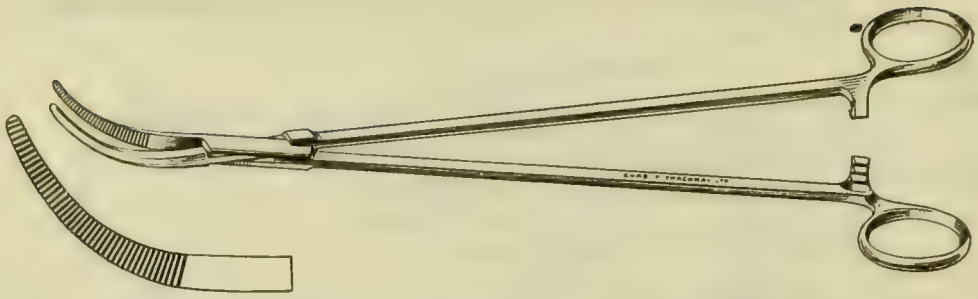
AD4634	WELLS' modified NYSTROM'S CLAMP, with lightweight blades, screw joint, stainless steel, for portacaval anastomosis	each

Mercerised Cotton Sleeving for use with above: page AD885.

ADDENDA

GENERAL OPERATION INSTRUMENTS

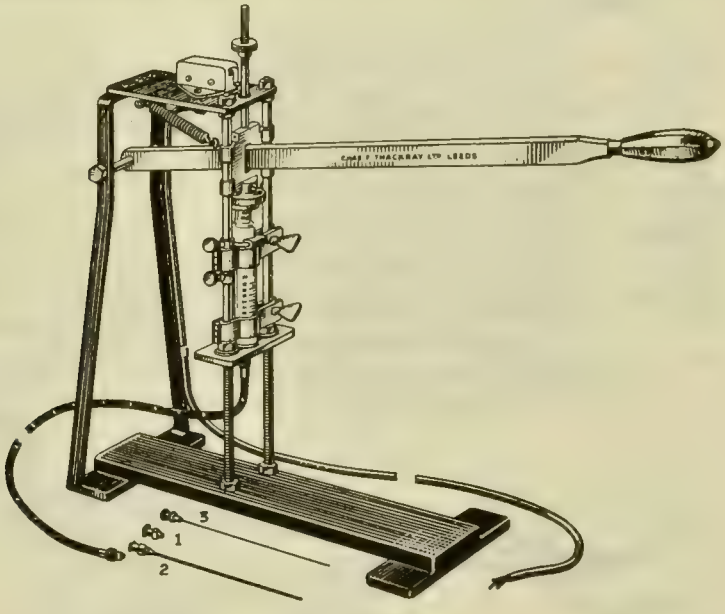
KIDNEY



AD4739

Cat. No.

AD4739 OLDFIELD'S ADRENALECTOMY FORCEPS, curved-on-flat, box joint, 10½ in., stainless steel .. .. each



AD4740

†AD4740 STIRLING'S INJECTOR FOR AORTOGRAPHY, complete with one 20 c.c. all-glass syringe with Luer-locking mount, fabric-reinforced rubber tubing, 21 in., with Luer-locking mounts and "blind" plug (1), two needles (2 and 3), sizes 18 s.w.g. and 16 s.w.g. by 15 cm. long .. .. complete

†*Vide:* "*Proceedings of the Royal Society of Medicine*", *vol.* 48, *page* 823; "*The Lancet*", *July 16th* 1955, *page* 123; "*Aortography*" (*W. Barr Stirling*), *Livingstone*, 1957.

CONTINUED OPPOSITE

STIRLING'S INJECTOR *continued*

Cat. No. SPARE PARTS

AD4741 SYRINGE, 20 c.c., all-glass, with Luer-locking mount .. .. each

AD4742 NEEDLE FOR AORTA, short bevel point, fitted stilette, stainless steel, size 18 gauge by 15 cm. long .. .. each

AD4743 Ditto .. Size: 16 gauge by 15 cm. long .. .. .. each

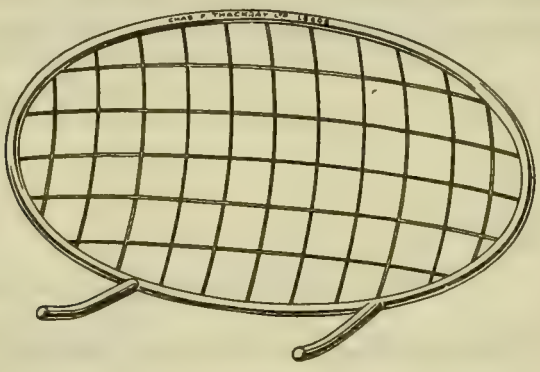
AD4744 "BLIND" LUER-LOCKING PLUG, female, to close open end of rubber tube prior to attachment of needle .. .. each

AD4745 RUBBER TUBING, fabric-reinforced, 21 in. long, with male and female Luer-locking connections .. .. each

ADDITIONAL FITTINGS FOR ANGIOCARDIOGRAPHY

AD4746 SYRINGE, 50 c.c., all-glass, with Luer-locking mount .. .. each

AD4747 HINGED CLIPS, to secure above to platform of injector, chromium plated .. set



AD4748

AD4748 GRAHAM'S KIDNEY STONE LOCATOR, slightly dished wire mesh, ½ in. squares, stainless steel .. .. each

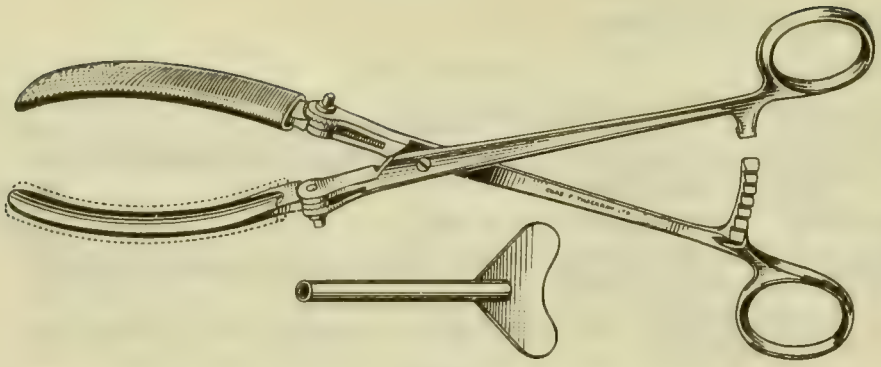
Mr. W. H. Graham, F.R.C.S., Royal Infirmary, Preston, writes:

"This instrument has been designed for the X-ray localisation of renal calculi and the demarcation of diseased areas in the kidney. One or more surgical needles are inserted into the renal substance in the appropriate squares as indicated by the opacity or defects, and the grid removed."

ADDENDA

GENERAL OPERATION INSTRUMENTS

KIDNEY



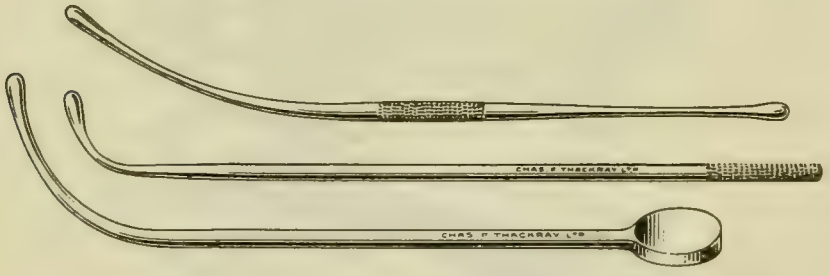
AD4749

Cat. No.

†AD4749 HAMILTON STEWART'S PARENCHYMATOUS KIDNEY CLAMP, with swivel blades, rubber-covered, which can be locked at any angle, complete with key, stainless steel .. .. each

†*Mr. H. Hamilton Stewart, M.A. Cantab., F.R.C.S. (Urological Dept., Bradford Royal Infirmary) has designed this parenchymal clamp to control hæmorrhage in partial nephrectomy; the angle of the blades may be altered and fixed by the ratchet fitting.*

Vide: "British Surgical Progress", page 27 (Butterworth and Co. Ltd.).

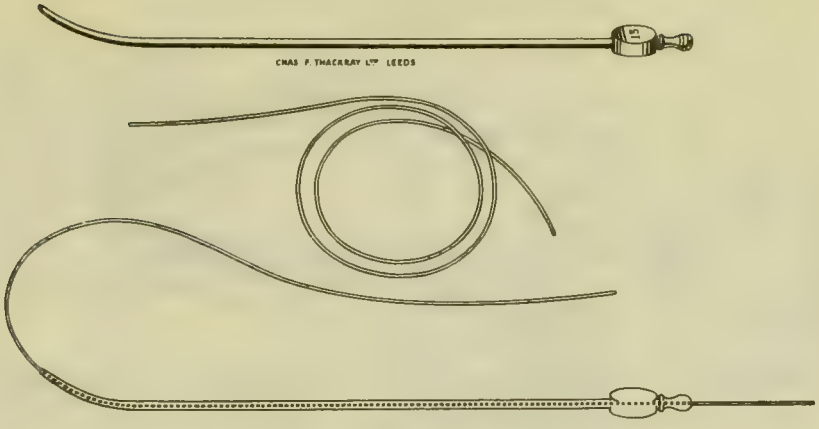


AD4750

*AD4750 WELLS' RENAL SOUNDS, set of three, stainless steel .. .. set

**Professor Charles A. Wells, F.R.C.S. (Dept. of Surgery, University of Liverpool) writes:*

"The precise location of a small stone in one or other calyx of the kidney may present some difficulty. None of the standard instruments is specially designed either in size or shape for this operation. The small sounds illustrated do not differ in pattern from those used in the bladder and elsewhere, but are of a size and shape appropriate for this particular purpose and have proved very helpful." Liverpool, March 14th, 1956.



AD4751–2

Cat. No.

†AD4751 COSBIE ROSS' "RAILWAY" BOUGIES, cannulated, eleven sizes, 8 to 18 French Catheter Gauge, Luer-fitting mount, chromium plated .. set

†AD4752 FILIFORM BOUGIES, nylon woven, gum elastic, 67 cm. in length, for use with above .. .. dozen

†*For the treatment of urethral stricture. After the filiform has been passed through the stricture, the metal bougie is threaded over it, the filiform remaining stationary; dilatation is achieved by passing sheaths of larger sizes.*
Vide: "The Lancet", July 21st, 1956, page 126.



AD4753

*AD4753 SWINNEY'S SLOTTED CANNULA and INTRODUCER, for suprapubic drainage by Foley's Catheter, stainless steel .. .. .. set

AD4754 Foley's Catheter, for use with above, size: 18 French Catheter Gauge, 30 c.c. bag each

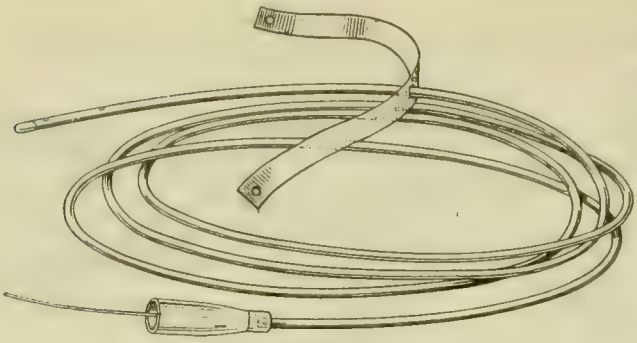
AD4754A Ditto .. size: 20 French Catheter Gauge .. .. .. each

**After perforation of the bladder wall and introduction of the Foley's Catheter, the slot in the cannula enables it to be withdrawn over the inflation tube of the catheter.*
Vide: "The Lancet", July 6th, 1957, page 28; "British Journal of Urology", Vol. xxx, No. 4, Dec. 1958, page 429.

NOTE.—COWAN'S CATHETER INTRODUCER, see page AD881

ADDENDA

UROLOGICAL INSTRUMENTS



AD4755

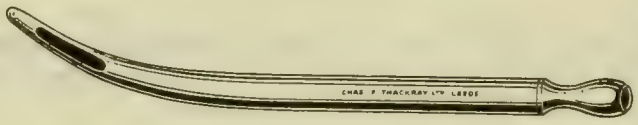
Cat. No.

AD4755 GIBBON'S CATHETER, for URETHRAL DRAINAGE of the BLADDER, transparent plastic, with side wings and adaptor for drainage bottle, 60 in. long; sizes 6 to 20 (even sizes) French Catheter Gauge, complete with stilette .. each

*AD4756 URINE BAG, reinforced plastic, for leg fitment, size: 8 in. by 3 in., for use with above .. .. each

Vide: "The Lancet", September 14th, 1957, pp. 520–524, "British Journal of Urology", March, 1958.

**Not illustrated.*

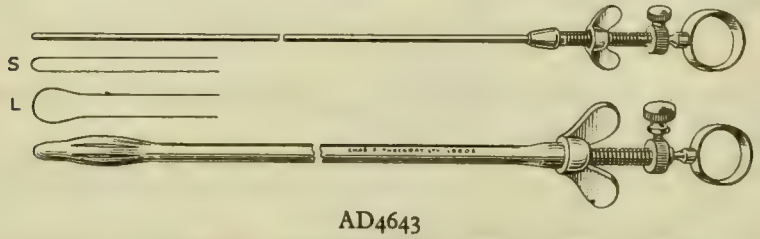


AD4757

†AD4757 WALTHER'S FEMALE CATHETER, tapering, for use as a dilator, chromium plated .. .. each

†*Mr. R. H. O. B. Robinson, F.R.C.S., St. Thomas's Hospital, London, writes:*

"The Walther's Female Catheter has the advantage of being in the first place a metal catheter and, therefore, boilable and indestructible. It is also tapered so that it acts as a urethral dilator and it is, therefore, possible to introduce it into a small urethra. Rubber tubing can be attached to the end for the collection of a specimen of urine if it is inconvenient to collect the specimen directly from the catheter."



AD4643

AD4643 GILMOUR'S CATHETER INTRODUCER, stainless steel, chromium plated mounts, two sizes: small and large .. .. each

This instrument has been designed for the introduction of de Pezzer or Malecot type of catheters. The catheter is loaded on to the rod and its base pushed over a mobile cone and securely fixed to a shoulder by a wing-nut. By pushing the rod forward the catheter is stretched to the required degree and the cone fixed to the rod by means of a milled-head screw.

Vide "The Lancet", December 26th, 1954, page 1341.

K.C.H. URINE DRAINAGE BOTTLE

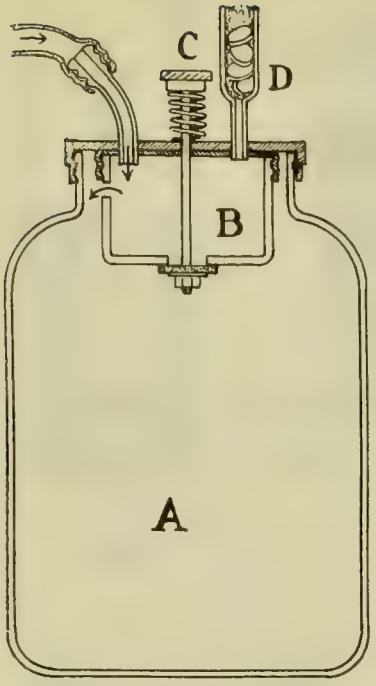


Fig. 1.

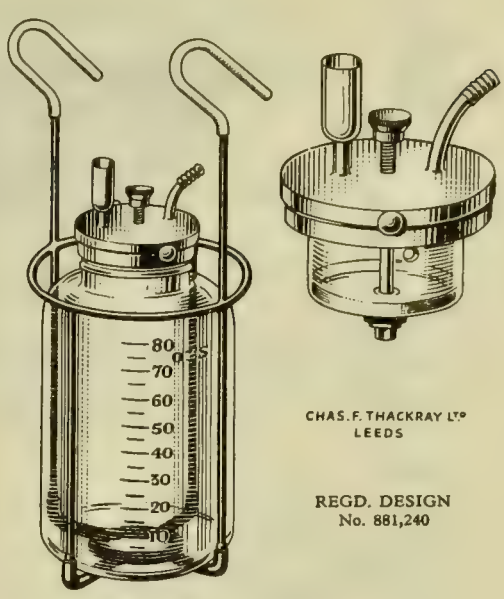


Fig. 2.

AD4758–9

DESCRIPTION

Designed for routine use after all forms of prostatectomy, the K.C.H. Urine Drainage Apparatus provides a visual check of continuity of bladder drainage in a closed drainage system; its use minimises the risk of infection.

It consists of a large graduated glass jar (Fig. 1.A), capacity 80 ounces, to the metal lid of which is fixed a smaller inner jar (B). Urine is delivered into the inner jar (B) and may be released into the larger jar by depressing the spring-loaded plunger (C). The air-vent (D) is designed to hold a supply of Formaldehyde tablets wrapped in gauze for the prevention of cross infection.

In use, the attendant nurse releases the contents of the inner jar (B) every half-hour and thus maintains a *visual check* of bladder drainage. An overflow hole (arrowed) is provided at the top of the inner glass jar.

The apparatus may be readily taken apart and cleaned and sterilized by autoclaving and the large jars changed as necessary in use, washed and sterilized in 1 in 2,000 solution of "Hibitane".

It is recommended that 4 ozs. of 10% solution of Formaldehyde be placed in the large jar during use (Riches, E. W., Practitioner, 1952, 169, 388).

Assembly of the jar may be carried out in the operation theatre; a convenient plastic-covered metal cage, with hooks (Fig. 2), enables it to be attached to the bed rail or carried by ambulatory patients.

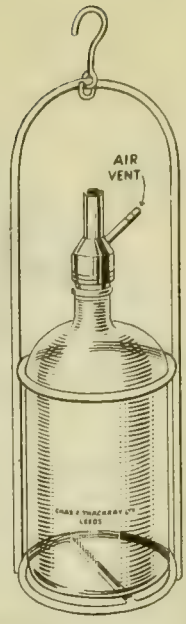
For a full description by N. A. Stephens, F.R.C.S., and C. Q. Henriques, F.R.C.S., vide the "Lancet" September 15th, 1956, page 557.

Cat. No.		
AD4758	K.C.H. (King's College Hospital) URINE DRAINAGE BOTTLE, consisting of: graduated glass jar, 80 oz. capacity, chromium plated metal lid with rubber washer, and inner glass jar with urine inlet, air vent and spring-loaded release plunger,	each
AD4759	METAL CRADLE, plastic-covered, to hang bottle on bed-rail ..	each
AD4760	Spare glass jar, 80 oz. capacity	each
AD4761	Spare glass inner jar	each
AD4762	Spare rubber washer	each

ADDENDA
UROLOGICAL INSTRUMENTS



AD4763



AD4764–5

Cat. No.

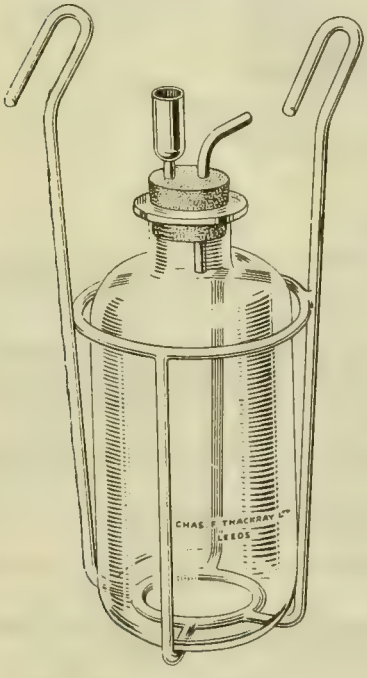
AD4763 LANE'S URINE DRAINAGE BOTTLE, 40 oz. capacity, with chromium plated screw-on metal cap and hanger, complete with 2 yards rubber tubing, complete

†AD4764 Ditto .. PYRAH'S modification, complete with 2 yards rubber tubing .. .. each

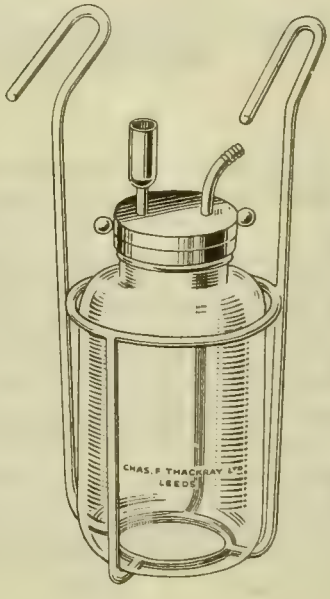
AD4765 METAL CRADLE, galvanized, for use with above, with hook for bed-rail .. .. each

AD4766 Spare GLASS BOTTLES only, for Nos. AD4763–4 .. each

†*Vide Lancet, August 13th, 1955, pp.* 314–7.



AD4767–8



AD4770

Cat. No.

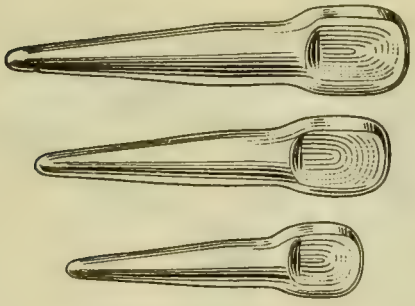
AD4767 RICHES' modified URINE DRAINAGE BOTTLE, 80 oz. capacity, with rubber bung and chromium plated metal inlet tube and air-vent funnel to hold Formaldehyde tablets; complete with 2 yards rubber tubing .. .. each

AD4768 METAL CRADLE, plastic-covered, to hang bottle on bed-rail .. each

AD4769 Spare GLASS BOTTLES only .. .. each

*AD4770 URINE DRAINAGE BOTTLE, similar to Cat. No. AD4758, but without inner jar .. .. each

**Cradle and spare parts are the same price as for* AD4758–4762.

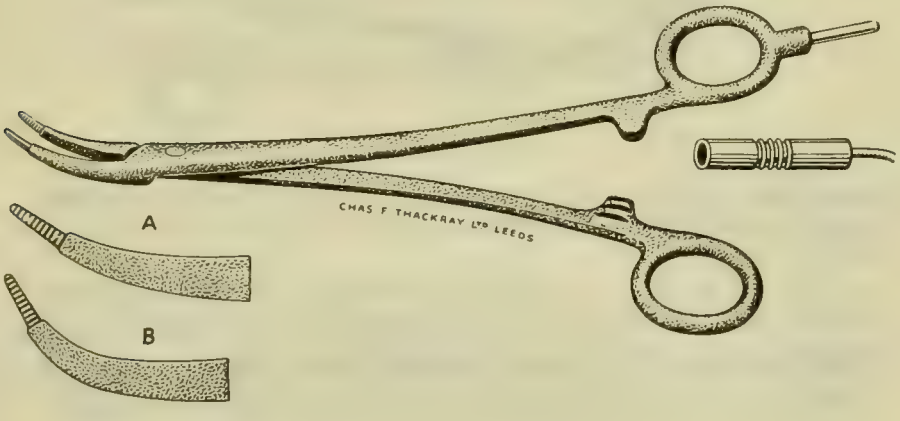


AD4644

Cat. No.

AD4644 CATHETER SPIGOTS, glass, three sizes: small, medium and large .. doz.

AD4644A Ditto .. plastic sterilised (disposable), large size only .. .. doz.



AD4771–2

†AD4771 COSBIE ROSS' DIATHERMY HÆMOSTATS, for prostatectomy, insulated with boilable plastic material to within $\frac{1}{4}$ inch of the tips of the jaws, screw-joint, 9 in., stainless steel, with shallow curve "A" .. .. .. each

†AD4772 Ditto .. with deep curve "B" .. .. each

*AD4773 CABLES, with socket type terminal, for above .. .. .. each

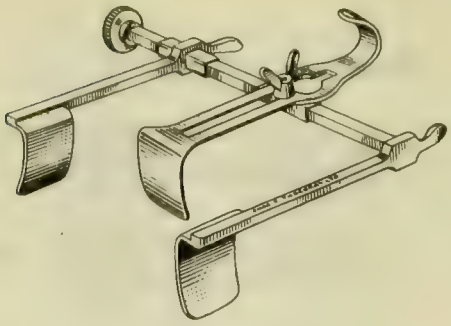
†*Fine, curved tips enable bleeding points in prostatic bed to be seized more easily.*

Vide: Lancet, February 11th, 1956, page 268.

**Not illustrated—see Cat. No. U1314, page U230*

ADDENDA

UROLOGICAL INSTRUMENTS

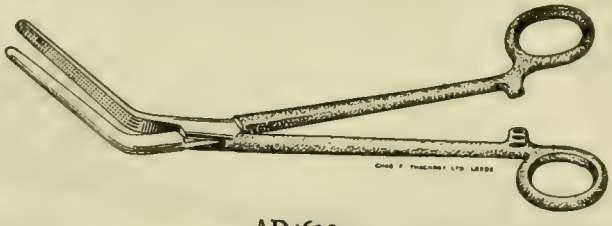


AD4774–5

Cat. No.

AD4774 SWINNEY'S INFANT'S BLADDER RETRACTOR, self-retaining, with adjustable centre blade, stainless steel .. .. each

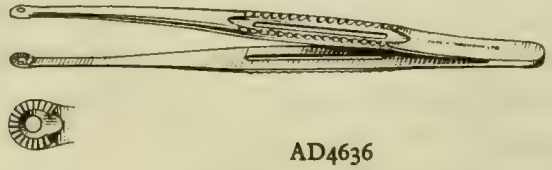
AD4775 Ditto .. without centre blade .. .. each



AD4635

AD4635 PYRAH'S CLAMP, with 2½ in. angled jaws, serrated transversely and longitudinally, shanks and bows covered with boilable insulating material, box joint, 9¾ in. stainless steel .. .. each

This instrument is used in total cystectomy, for clamping-off the vascular, fatty and connective tissue connecting the side of the rectum and the side of the bladder. They are applied to this tissue after the main vascular pedicles to the bladder have been ligatured and divided, and after the seminal vesicles and base of the prostate have been separated from the rectum. Since it is often convenient to divide this tissue by diathermy after the clamp has been applied, this insulated form of instrument has been designed.

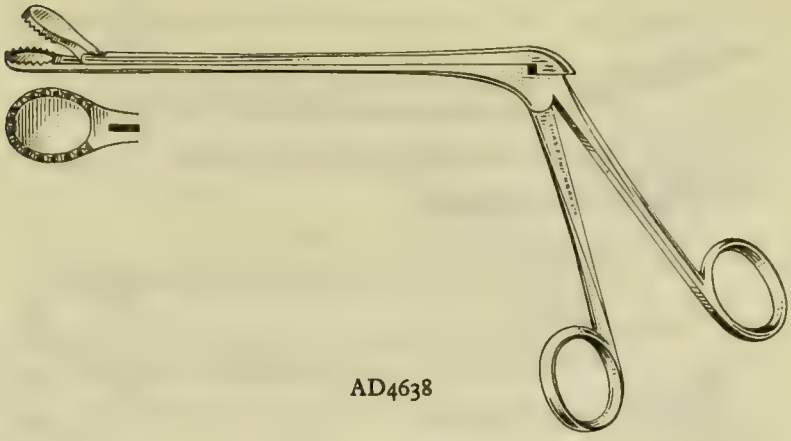


AD4636

AD4636 MAYO'S or RUSSIAN PATTERN TISSUE FORCEPS, 9 in., stainless steel, each

AD4637 Ditto .. 6 in. .. .. each

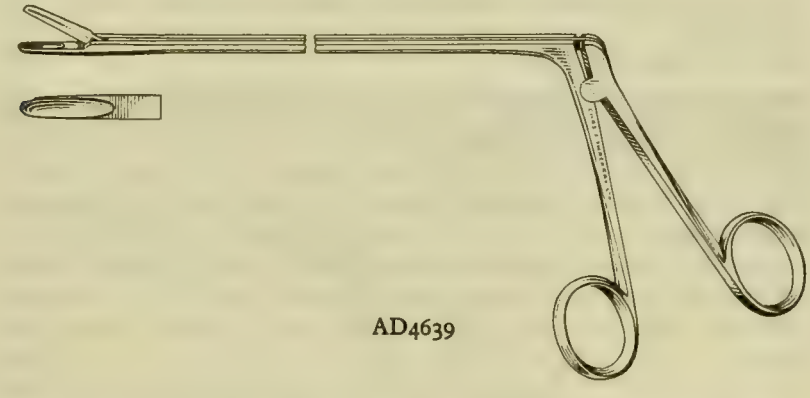
The circular jaws of this instrument have multiple, non-perforating teeth and the handles roughened and fenestrated to provide a light hold. They are particularly useful when a firm grip is required, but damage to tissue must be avoided. The 9 in. length is convenient for pelvic work.



AD4638

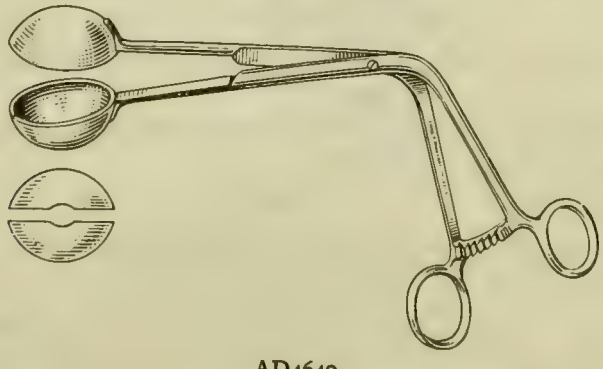
Cat. No.

AD4638 HARRIS' PROSTATIC CAPSULE FORCEPS, $5\frac{3}{4}$ in. shaft (working length), stainless steel .. .. each



AD4639

AD4639 HARRIS' SWAB HOLDING FORCEPS, $7\frac{3}{4}$ in. shaft (working length), stainless steel .. .. each

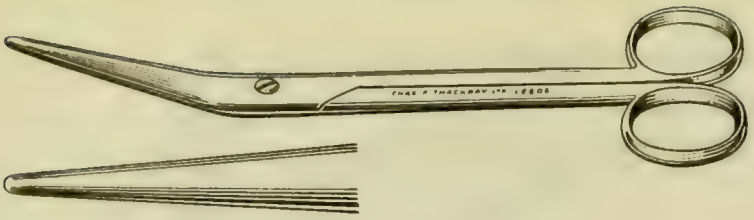


AD4640

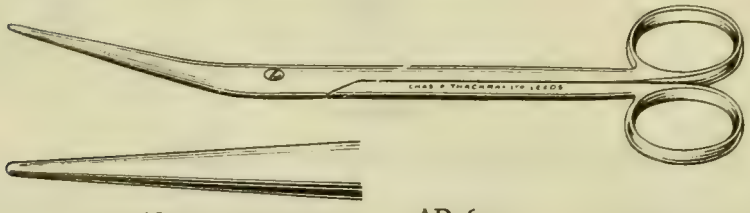
AD4640 FERGUSSON'S PAPILLOMA FORCEPS, screw joint, stainless steel, three diameters of jaws: 1 in., $1\frac{7}{16}$ in. and $1\frac{3}{4}$ in. .. .. each

ADDENDA

UROLOGICAL INSTRUMENTS



(Blades Closed) AD4641



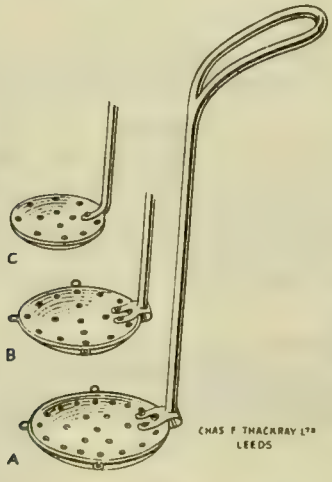
(Blades Closed) AD4642

Cat. No.

AD4641 PYRAH'S modified MAYO'S SCISSORS, angled-on-flat, heavy pattern, 8 in., stainless steel .. .. each

AD4642 Ditto .. light pattern, 8 in. .. .. each

These two patterns are for blunt dissection at a depth. The light pattern scissors are particularly useful for assisting in the dissection of the ureters in uretero-colic anastomosis and for pelvic work generally.



AD4776

†AD4776 MAITLAND'S JIGS for inserting RADON SEEDS, set of three sizes: A, B and C, Perspex, mounted on chromium plated metal handles .. .. set

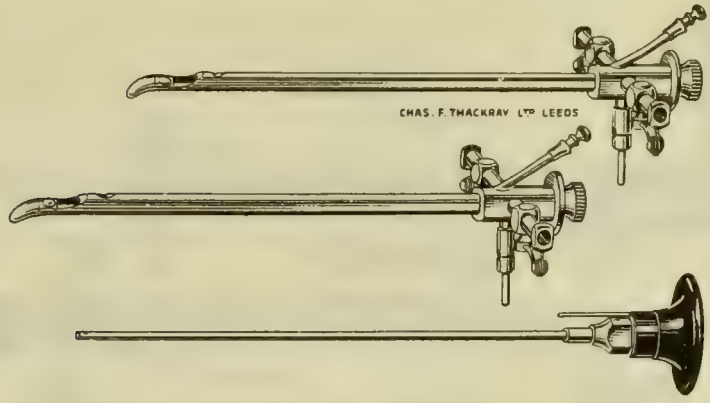
†*The bowls are saucer-shaped and drilled with holes 1 cm. apart. Size A measures 5 cm. diameter (for 23 seeds), size B, 4 cm. diameter (for 17 seeds) and size C is 3 cm. (for 12 seeds). Each of the two larger sizes has a metal circumferential ring, with eyes to enable the jig to be temporarily stitched to the bladder wall to facilitate insertion of seeds.*

Vide B.M.J., July 14th, 1956, vol. ii, page 102.

ADDENDA

UROLOGICAL INSTRUMENTS

CAMPBELL'S MINIATURE OPERATING CYSTOSCOPE



AD4777

Cat. No.

†AD4777 CAMPBELL'S MINIATURE OPERATING CYSTOSCOPE, for Single and Double Catheterising, consisting of: Single Catheterising Sheath size 13½ French Catheter Gauge, Double Catheterising Sheath size 15 French Catheter Gauge, right-angled Universal Telescope for use with both sheaths. Accessories, including: one set of rubber-covered Light Cables, one set of rubber-covered Diathermy Cables, Irrigation Stopcock, two X-ray opaque Ureteric Catheters, one Fulgurating Electrode size 4 French Catheter Gauge, and one Operating Loop-Electrode size 4 French Catheter Gauge, and two Spare Lamps, in polished mahogany case .. .. complete

*AD4778 Spare Lamps for above, 3·5 volts .. .. each

†*This miniature cystoscope has been designed as an operating instrument for children; it is particularly useful for operations in the region of the bladder neck such as the excision of urethral valves and similar congenital abnormalities.*

The sheaths have a working length of 4⅜ in. and are unique in shape, changing from a round section at the beak to an oval in the remaining length, thus adding to the efficiency of the instrument by supporting the tissue at a good working distance from the telescope lens. Another important feature is an inclined plane on each sheath just in front of the lamp and which elevates the catheter or electrode at a fixed angle of deflection.

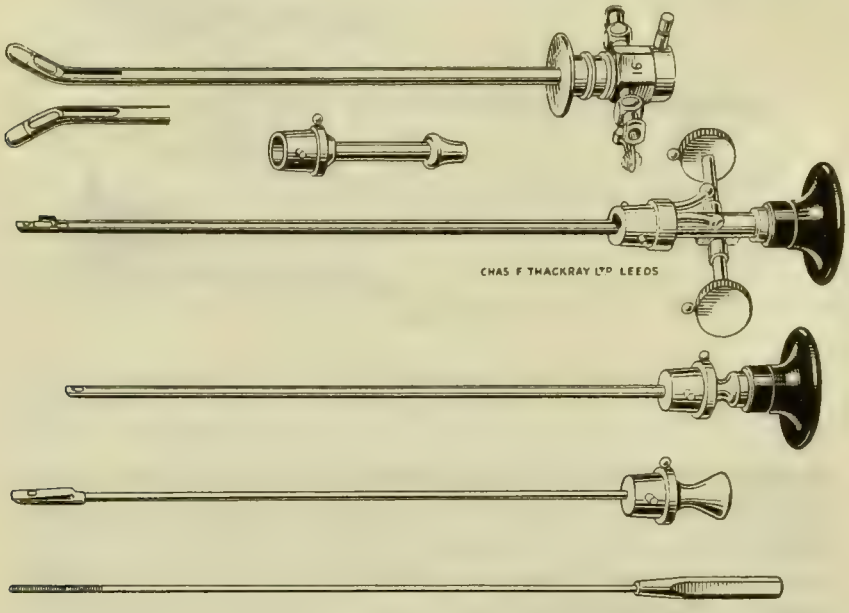
All metal parts are chromium plated.

**When ordering please state reference number on lamp plate inside lid of case.*

ADDENDA

UROLOGICAL INSTRUMENTS

LAIDLEY'S CHILDREN'S CYSTOSCOPE



AD4779

Cat. No.

†AD4779 LAIDLEY'S CHILDREN'S CYSTOSCOPE, for examining and double catheterising, consisting of: one each of Concave and Convex Sheaths, size 16 French Catheter Gauge, Obturator, *Wide-angle* Examining Telescope, Double Catheterising Attachment with Telescope, two X-ray Opaque Ureteric Catheters, Catheter Clip, two Spare Lamps, Cleaning Rod, rubber-covered Light Cables and Switch, and six perforated Rubber Caps, in polished mahogany case, complete

*AD4780 Spare Lamps for above, 3·5 volts .. .. each

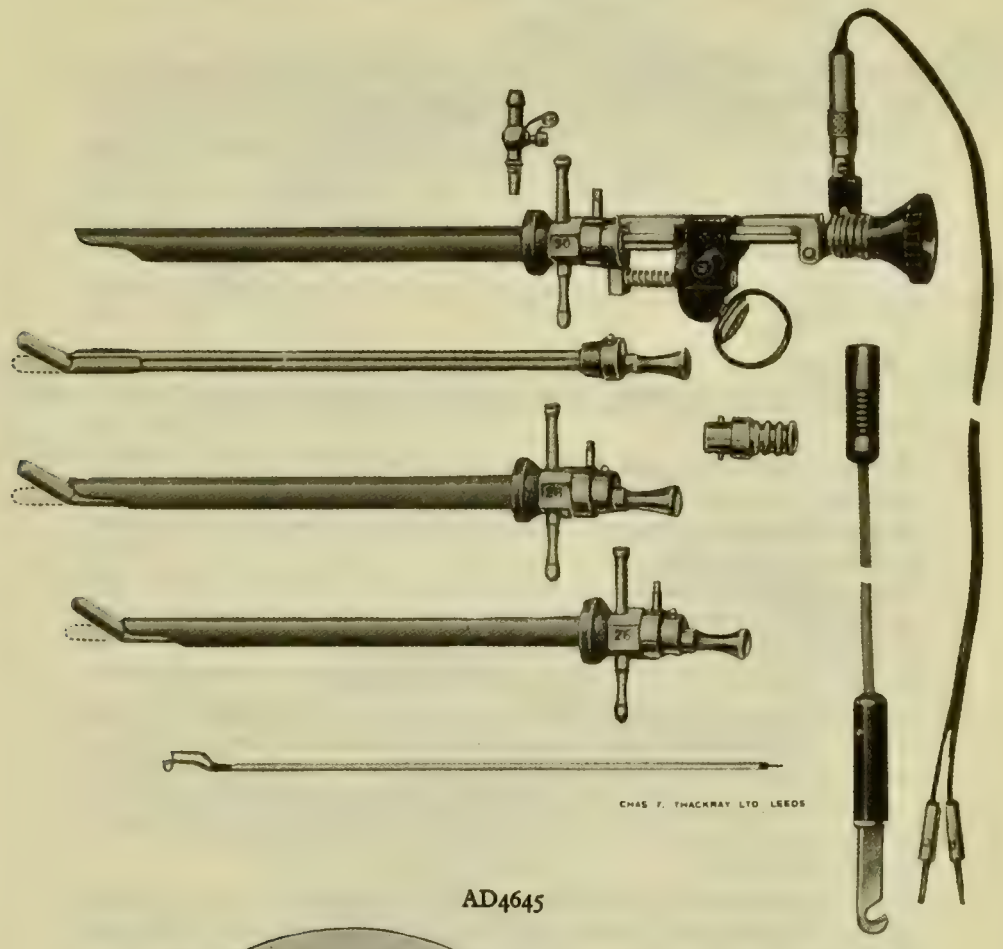
†*All metal parts are chromium plated.*

**When ordering please state reference number on lamp plate inside lid of case.*

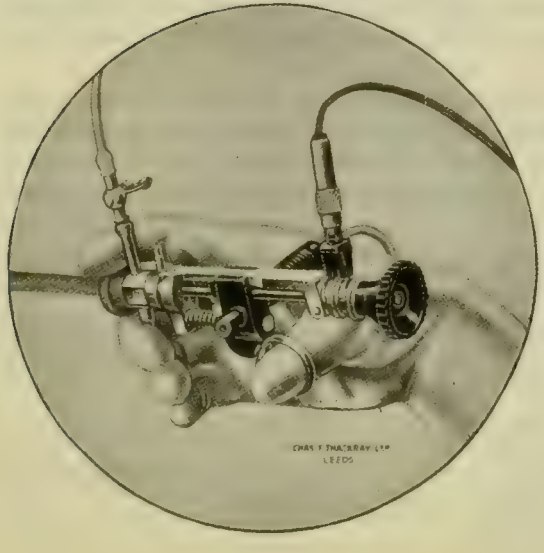
ADDENDA

UROLOGICAL INSTRUMENTS

RAPER'S MODIFIED NESBIT'S MULTIPLE RESECTOSCOPE



AD4645



AN IMPROVED DESIGN OF WORKING ELEMENT IS NOW SUPPLIED IN WHICH THE OPERATOR'S THUMB IS DIRECTLY BEHIND THE SPRING (WHICH IS CONCEALED IN A TUBE), GIVING A SMOOTHER ACTION IN USE

Description overleaf

ADDENDA

UROLOGICAL INSTRUMENTS

RAPER'S MODIFIED NESBIT'S MULTIPLE RESECTOSCOPE

Cat. No.

AD4645 RAPER'S Modified NESBIT'S MULTIPLE RESECTOSCOPE, consisting of: three Bakelite Sheaths, sizes: 26, 28 and 30 French Catheter Gauge, with articulated Obturators, spring-loaded Working Element with thumb-rest for one-handed operation, forward/oblique vision Telescope, three each metal-sheathed Cutting *Loops for sizes: 26, 28 and 30 French Catheter Gauge sheaths, one Coagulating *Roller Electrode, screw-in coned Irrigator Tap, plug-in metal Connection for evacuator, two-prong Switch with rubber-covered Cables, Diathermy Cable and one Spare Lamp, in mahogany case .. .. .. complete

*AD4646 Spare metal-sheathed Diathermy Loops, for sizes: 26, 28 and 30 French Catheter Gauge sheaths .. .. each

†AD4647 Spare Lamps .. .. each

†*When ordering, please state reference number on lamp plate inside lid of case.*

This new resectoscope, made to the suggestions of Mr. F. P. Raper, F.R.C.S., Consultant Urological Surgeon, The General Infirmary at Leeds, provides a combination of instruments designed to enable electro-surgical resection of the prostate to be carried out through small or large urethras. It can also be used to obtain biopsy specimens from the bladder and for the resection of bladder tumours. The working element is arranged for one-handed operation, thus permitting the prostate to be palpated per rectum with the free hand; an O'Conor's Rectal Sheath or Drape (see figs. U1344–5, page U237) may be used to prevent soiling of the surgeon's hand.

As in the original Nesbit's instrument, the loop is actuated entirely by the thumb of the operator, a light spring being compressed during its forward excursion through the sheath. The expansion of the spring enables the loop to be withdrawn into the sheath automatically, but under the operator's complete control. The thumb-ring, which swivels freely, has a serrated rest to ensure a comfortable hold and prevent slipping.

Three insulated sheaths (of Bakelite) are provided in sizes: 26, 28 and 30 French Catheter Gauge, and each sheath is fitted with an irrigation nozzle at the top and a shaped metal rest for the fingers below. All three sheaths are interchangeable on the Working Element.

A forward/oblique vision telescope supplied with the instrument provides a very clear picture and is so constructed that, whilst it remains stationary in the sheath, it can, if necessary, be adjusted and fixed in various positions, so that the loop is visible throughout the whole of its excursion. It is fitted with a two-pronged American pattern switch connection.

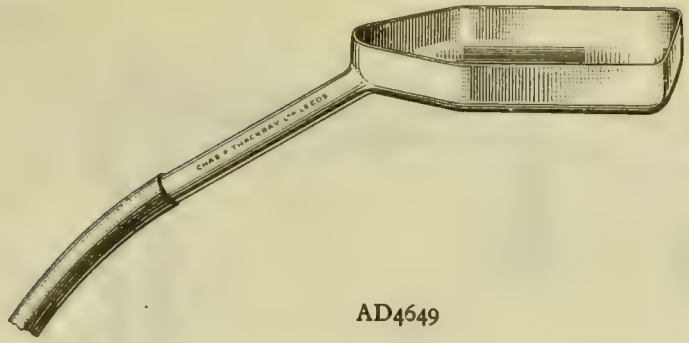
The loops are robust in construction and, being metal-sheathed, ensure their accurate fixation in position with smooth operation of the working element.

To complete the armamentarium, the outfit is supplied with a screw-in coned irrigation tap and a plug-in metal connection to attach to any standard evacuator (see fig. U1116, page U190).

For use with this instrument, a powerful valve-operated Surgical Diathermy Unit, the DIATRON, has been developed to permit rapid cutting and correct coagulation under water. For full details see figs. E4553–4, *page* E822–3.

**Prongs on each electrode are now insulated with Fluon (p.t.f.e.).*

UROLOGICAL INSTRUMENTS



AD4649

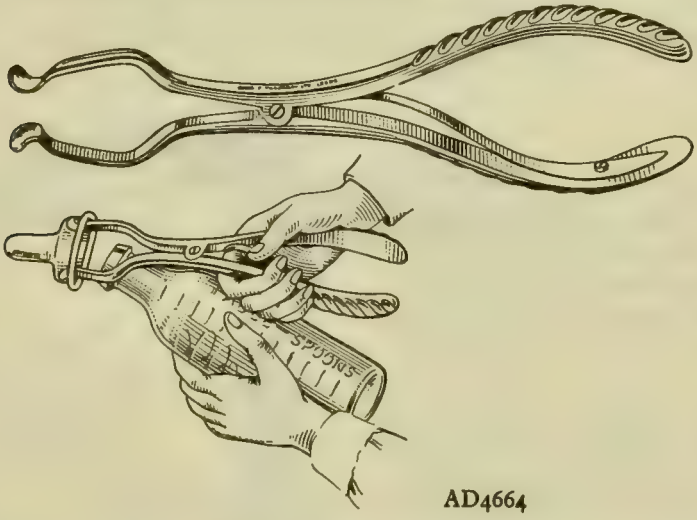
Cat. No.

AD4649 GRAHAM'S POCKET PERINEAL URINAL, stainless steel, complete with short length of rubber tubing .. .. each

AD4649A Ditto .. made of clear plastic .. .. each

For use after permanent perineal urethrostomy.

MIDWIFERY AND GYNÆCOLOGICAL INSTRUMENTS



AD4664

AD4664 BABIES' TEAT APPLICATION FORCEPS, as used at the Victoria Hospital for Sick Children, Hull; stainless steel .. .. each

The control of cross-infection in Infants' Hospitals presents a number of problems, one of which is the maintenance of sterility in the preparation of feeding bottles and teats.

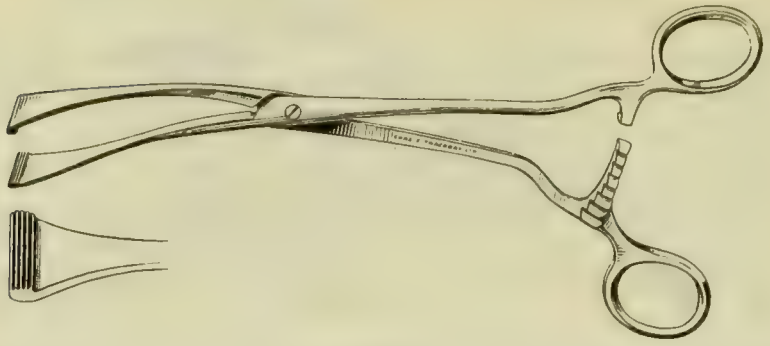
The sterilization of feeding bottles and teats is routine, but application of the teat to the bottle is not always carried out aseptically. This instrument is designed to facilitate the mounting of teats on to feeding bottles. It has been used with success for several months at the Victoria Hospital for Sick Children, Hull. It has been found that a teat can be applied to a bottle more quickly by forceps than by digital manipulation. The forceps are kept in a sterilizing immersion until ready for use. The teat is most conveniently withdrawn from its immersion with plain dissecting forceps, held in the left hand and placed on the jaws of the teat forceps in the right hand.

The teat is applied to the bottle as shown in the illustration.

Vide "Nursing Times", May 29th, 1954.

ADDENDA

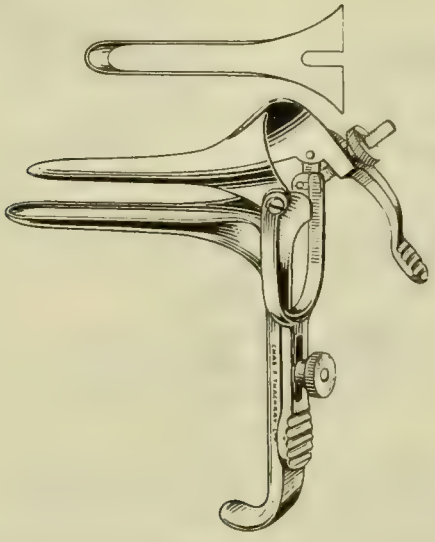
MIDWIFERY AND GYNÆCOLOGICAL INSTRUMENTS



AD4781

Cat. No.

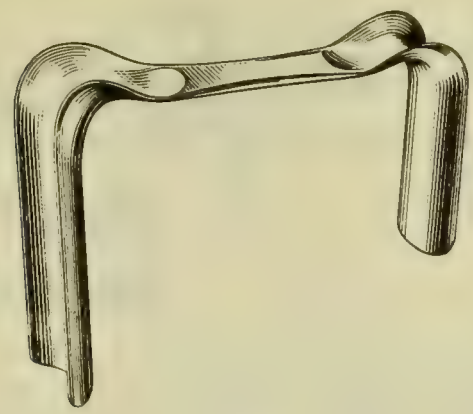
AD4781 SNAITH'S modified GREEN-ARMYTAGE'S HÆMOSTASIS FORCEPS, for lower uterine segment, curved laterally, screw-joint, 8 in., stainless steel, each



AD4782

†AD4782 BEYNON'S modified BREWER'S VAGINAL SPECULUM, small size, narrow blades of 3½ in. working length, chromium plated .. .. .. each

†*Mrs. Constance L. Beynon, F.R.C.S., Ed., M.R.C.O.G. (Hove), writes:*
"*Most patterns of small size Vaginal Specula reduce the length of the blades as well as their width. This speculum has been designed to obviate this disadvantage and by keeping the blades flat right up to the hilt it gives the maximum exposure with the minimum distension at the hymenal ring. It therefore allows of thorough vaginal inspection in almost any patient.*"

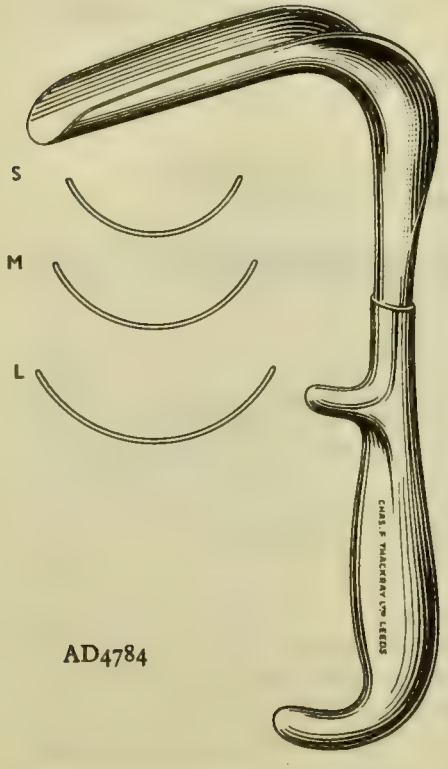


AD4783

Cat. No.

AD4783 CHRISTIE HOSPITAL PATTERN VAGINAL SPECULUM, large size, blades 5 in. by 1½ in. and 3 in. by 1⅜ in., chromium plated .. .. each

AD4783A Ditto .. small size, blades 3 in. by 1⅜ in. and 2½ in. by 1¼ in., chromium plated each



AD4784

Cat. No.

†AD4784

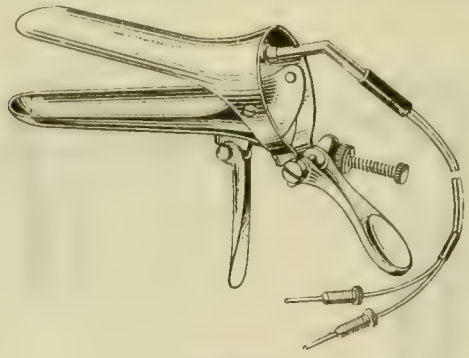
CURRIE'S VAGINAL SPECULUM, single-ended, three sizes: small (S), medium (M) and large (L); blades with working length of 4 inches, on hollow handle, chromium plated .. .. each

†*Mr. David W. Currie, M.D., Ch.M., F.R.C.S., F.R.C.O.G. (Consultant Gynæcologist, United Leeds Hospitals), writes:*

"The single-ended vaginal speculum made for me by Messrs. Thackray, in three sizes, was designed to overcome three major fallacies of the common or garden Sims' speculum. In the first place, the curled-up tip of a Sims' speculum was removed so that there would be no difficulty when packing a vagina; secondly, the blade was lengthened so that one is able to see the condition of the cervix and posterior fornix without difficulty; and lastly we dispensed with the double-ended speculum to overcome the nuisance, so often encountered, by the end not in use inhibiting the value of the end being used."

ADDENDA

MIDWIFERY AND GYNÆCOLOGICAL INSTRUMENTS



AD4785

Cat. No.

AD4785 CUSCO'S VAGINAL SPECULUM, with detachable lamp stem and cables, three sizes: small, medium and large, chromium plated .. .. .. each

AD4786 Spare Lamps for above, 3·5 volts .. .. each

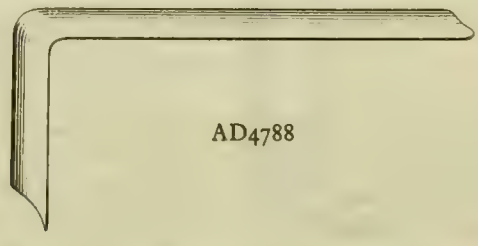


AD4787

†AD4787 ST. GEORGE'S HOSPITAL PATTERN modified SIMS' VAGINAL SPECULUM, extra-large size, blades $4\frac{3}{4}$ in. by $1\frac{3}{16}$ in. and $4\frac{1}{4}$ in. by $1\frac{1}{8}$ in., chromium plated .. .. each

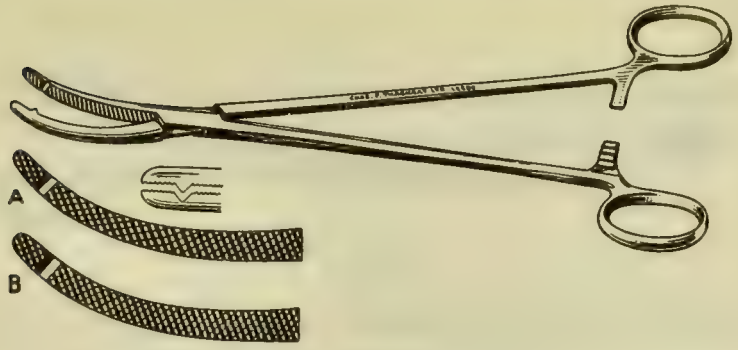
AD4787A Ditto .. standard size, blades $3\frac{3}{4}$ in. by 1 in. and $3\frac{5}{8}$ in. by $\frac{7}{8}$ in. chromium plated .. .. each

†*Originally made for St. George's Hospital, London, and described by Mr. Ian A. Donaldson in the British Medical Journal of 13th March, 1954, page 639, this is a lightweight modification of Sims' speculum in which the blades have been lengthened for easier demonstration of the cervix.*



AD4788

AD4788 CHRISTIE HOSPITAL PATTERN VAGINAL RETRACTOR, single-ended, with blade 3 in. deep by 1 in. wide, stainless steel .. .. .. each



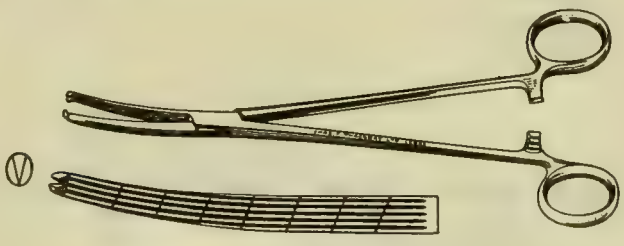
AD4789–90

Cat. No.

†AD4789 HEANEY'S HYSTERECTOMY CLAMP FORCEPS, curved-on-flat, box joint, 7¾ in., serrated jaws with single tooth and notch, light model (A), stainless steel .. .. each

†AD4790 Ditto .. heavy model (B) .. .. each

†*Used for vaginal hysterectomy. Vide "Surgical Clinics of North America", vol 22, page 73. "Operative Gynæcology", by R. W. Te Linde (Second Edition, 1953, J. B. Lippincott Co.), pages 123–133.*



AD4650

*AD4650 HUNTER'S HYSTERECTOMY FORCEPS, box joint, 9 in., stainless steel, each

"This instrument is strong, but light in weight. The slender jaws are straight in the proximal half but slightly curved in the distal half. They have interlocking longitudinal deep-cut serrations interrupted with seven oblique cross cuts and have one into two terminal teeth.

"The blades clamp the tissues firmly without risk of slipping and the terminal teeth grip the vaginal angles securely. A minimal amount of tissue is crushed and distorted, yet, in view of the slight curve, there is little risk of the centre of the pedicle retracting during ligation of the vessels. The handles are sufficiently long to permit application and removal under direct vision." W. Hunter, M.D., F.R.C.O.G.

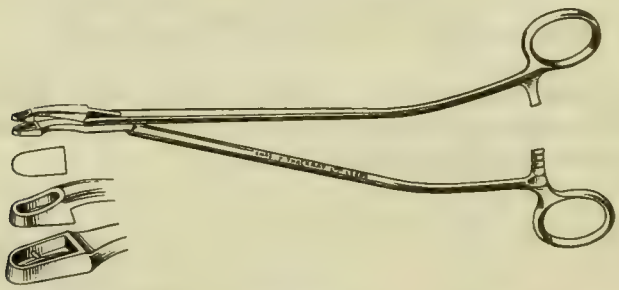
**Vide Lancet, October 9th, 1954, page 739.*



AD4791

Cat. No.

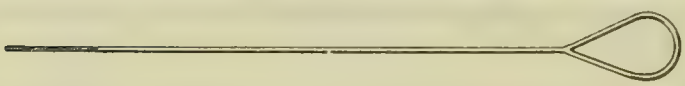
AD4791 CURRIE'S UTERINE SCISSORS, heavy pattern, angled-on-flat, 8 in., stainless steel .. .. each



AD4792

AD4792 VAN DOREN'S CERVICAL BIOPSY FORCEPS, box joint, 10 in., stainless steel .. .. each

AURAL AND MASTOID INSTRUMENTS



AD4793

AD4793 KING'S COLLEGE HOSPITAL PATTERN AURAL PROBE, malleable, serrated end, silver .. .. each

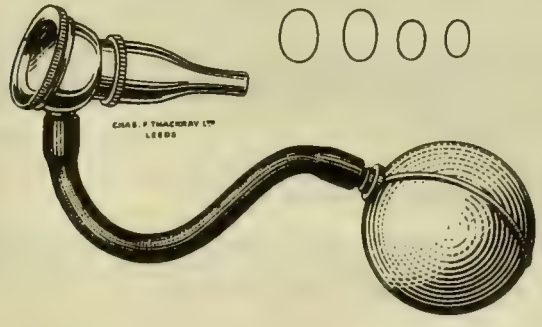


AD4794

Cat. No.

†AD4794 GRAY'S MASTOID GOUGES, lightweight for endaural use; set of five sizes: 1 mm., 2 mm., 3 mm., 4 mm., and 5 mm. wide, stainless steel .. .. set

†*"Designed for endaural mastoid surgery. The blades are short and bevelled on the concave surface only so that direction of cut is always in exact line with the handle of the instrument, the shank being thinned to facilitate vision when working through a speculum."—J. D. Gray, F.R.C.S., Consultant E.N.T. Surgeon, Royal Hospital, Sheffield.*



AD4795

AD4795 PETERS' modified SIEGLE'S AURAL SPECULUM, with set of four specula, silver plated, complete with rubber ball .. .. per set

AD4796 Spare Specula for above .. .. each

AD4797 Spare rubber ball for above .. .. each

ADDENDA

LUNG AND CHEST INSTRUMENTS



AD4665

Cat. No.

AD4665 "WEST BROMWICH" SAFETY BRONCHITIS KETTLE, *Regd. Design No.* 872, 851 *Patent No.* 742, 543.

- **FILLING-FUNNEL AT BACK TO PREVENT OVERFILLING; KETTLE CAN ONLY BE FILLED TO A SAFE PRE-DETERMINED LEVEL.**

The filling-funnel—fitted with a hinged lid—covers a wide entrance hole in the base of the kettle body. When the water has boiled away to about an inch from the bottom of the kettle, steam will be emitted from top of the funnel and thus give a **Visible Warning** *that the kettle requires refilling.*

- **ANTI-PRIMING DEVICE ON DOME OF KETTLE TO PREVENT BOILING WATER REACHING KETTLE SPOUT.**

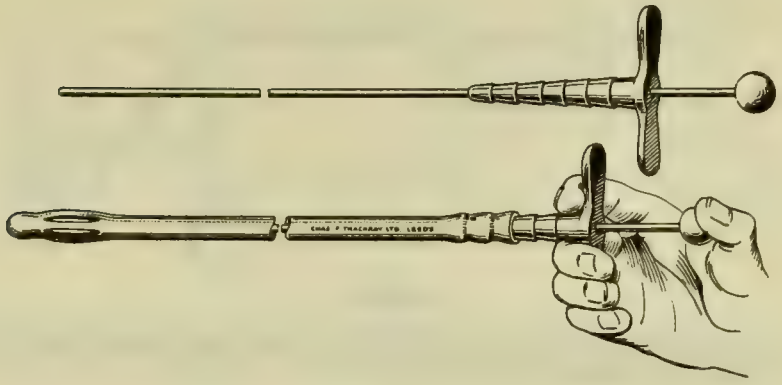
The anti-priming device mounted on the dome of the kettle, between the handle, is fitted with an insulated plug to protect the hands when the kettle is lifted and can be removed for cleaning by unscrewing it from the kettle.

Specification:

Kettle body of heavy gauge copper, with heavy brass heat-base fitted with two clamp-on Electric Heaters, 300 watts capacity each, controlled by 3-heat switch and thermostatic device to automatically prevent damage to kettle if boiled dry. Fitted with filling-funnel at back of kettle, removable anti-priming device on dome, usual fittings as illustrated, and complete with earthed adapter and two yards of 3-core rubber-covered flex. Capacity: 5 pints to within half an inch of top of filling funnel. Chromium plated .. .. each

Available for use on 200/210, 220/240 *and* 230/250 *volts.*

Please state Voltage when ordering.



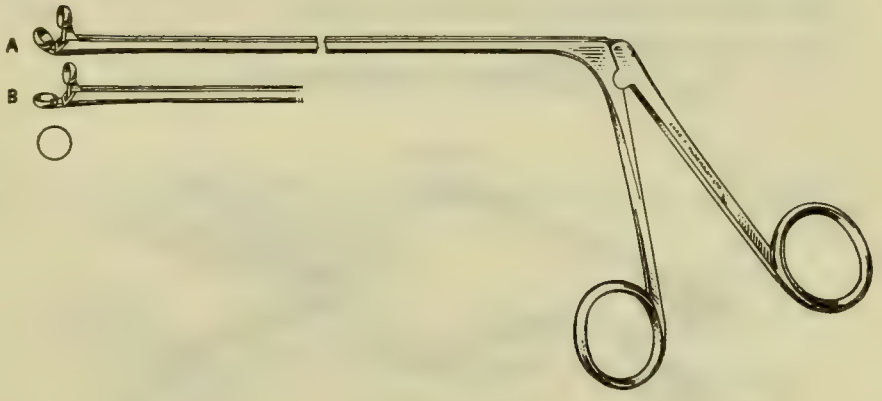
AD4798

Cat. No.

†AD4798 COWAN'S CATHETER INTRODUCER, for use with Malecot type rubber catheters, stainless steel with chromium plated cone mount .. .. each

†*Designed to introduce a Malecot's self-retaining catheter into the chest for empyema drainage, spontaneous pneumothorax, etc. For use with catheters: size 20 French Catheter Gauge and upwards (see page U202 for Malecot's Catheters).*

Vide: Lancet, November 15th, 1958, page 1047.



AD4799-4800

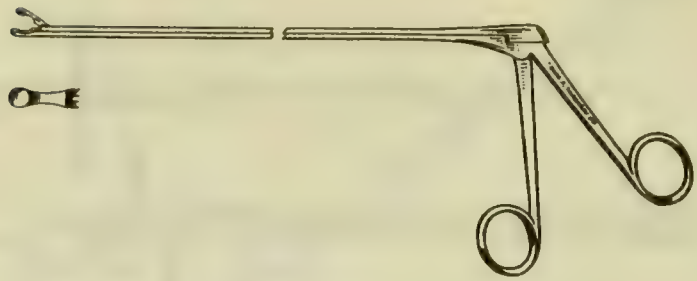
*AD4799 BROCK'S BRONCHOSCOPIC BIOPSY FORCEPS, with cup-shaped jaws, angled upwards (A), 50 cm. long, stainless steel .. .. .. each

*AD4800 Ditto .. straight (B) .. .. each

**Other lengths can be made to order.*

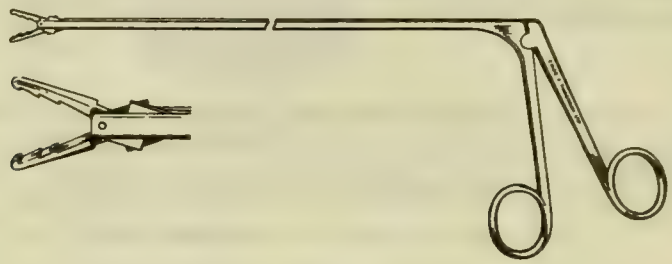
ADDENDA

LUNG AND CHEST INSTRUMENTS



AD4801

Cat. No.
†AD4801 SULLY HOSPITAL PATTERN BRONCHOSCOPIC GRASPING FORCEPS, round cup-jaws, stainless steel,* 40 cm. long .. .. .. each

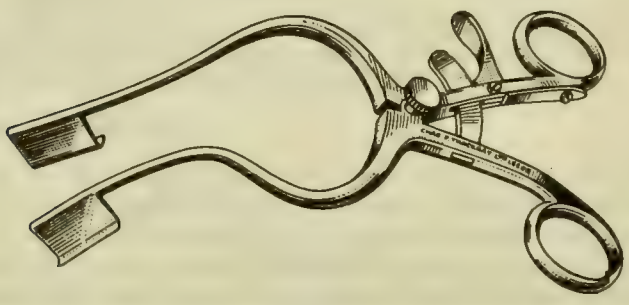


AD4802

†AD4802 SULLY HOSPITAL PATTERN BRONCHOSCOPIC GRASPING FORCEPS, double-action toothed jaws, stainless steel,* 40 cm. long .. .. each

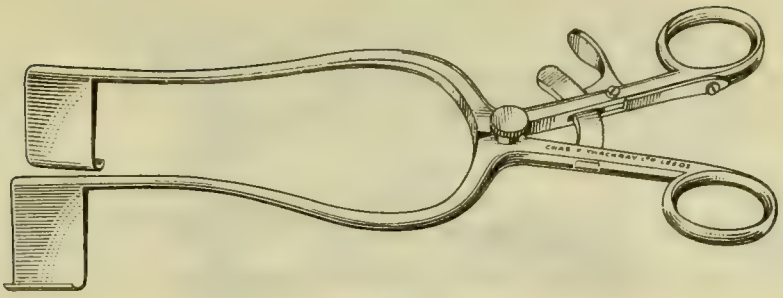
†*Vide British Medical Journal, August 11th, 1956, vol. ii, page 324.*

**Other lengths can be made to order.*



AD4652

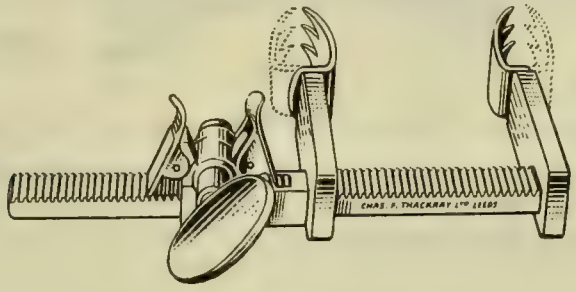
AD4652 ALLISON'S (modified Mollison's) RIB RETRACTOR, curved, solid blades: $\frac{1}{4}$ in. wide by $\frac{11}{16}$ in. deep, cam ratchet, stainless steel, for INFANTS .. each



AD4653

Cat. No.

AD4653 ALLISON'S (modified Travers') RIB RETRACTOR, straight, solid blades: $\frac{7}{8}$ in. wide by $1\frac{5}{16}$ in. deep, cam ratchet, stainless steel, for CHILDREN, each



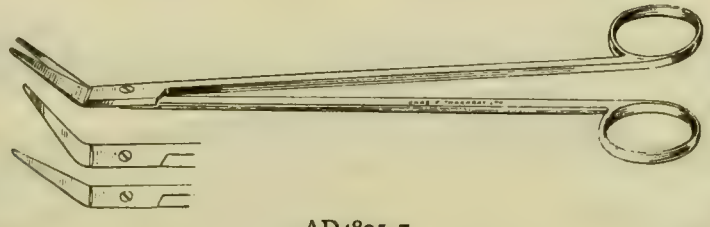
AD4803

AD4803 BAILEY'S combined RIB APPROXIMATOR and RIB SPREADER, stainless steel .. .. each



AD4804

AD4804 RONALD EDWARDS' RIB RASPATORY, with long slender blade, stainless steel on chromium plated handle .. .. each



AD4805–7

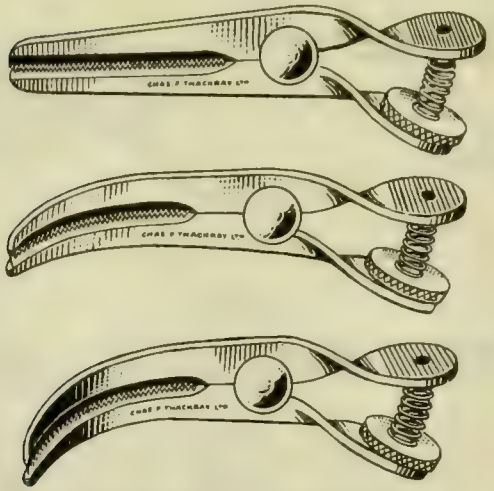
AD4805 POTTS-SMITH'S SCISSORS, with fine blunt points, angled-on-flat, 45°, $7\frac{1}{2}$ in., stainless steel .. .. each

AD4806 Ditto .. angled-to-side 45°, stainless steel .. .. .. each

AD4807 Ditto .. angled-to-side 25°, stainless steel .. .. .. each

ADDENDA

LUNG AND CHEST INSTRUMENTS



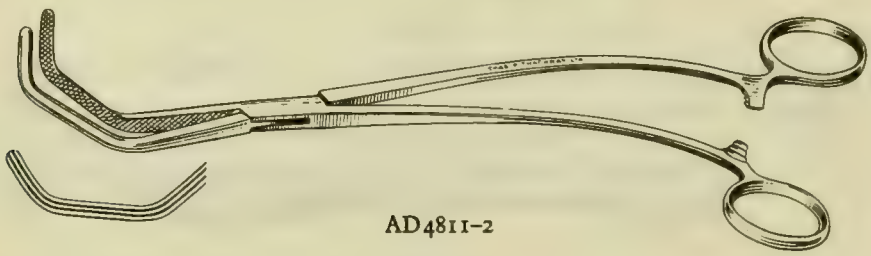
AD4808–10

Cat. No.

AD4808 POTTS' BULLDOG CLAMP, cross action, straight jaws, stainless steel each

AD4809 Ditto .. with slightly curved jaws .. .. each

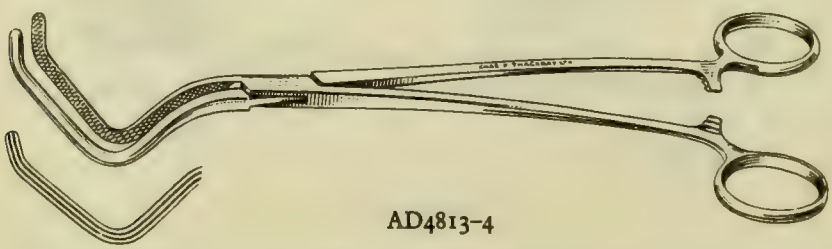
AD4810 Ditto .. with acutely curved jaws .. .. each



AD4811–2

AD4811 SATINSKY'S ANASTOMOSIS CLAMP, with cross serrations, 9¼ in., box-joint, type "A", stainless steel .. .. each

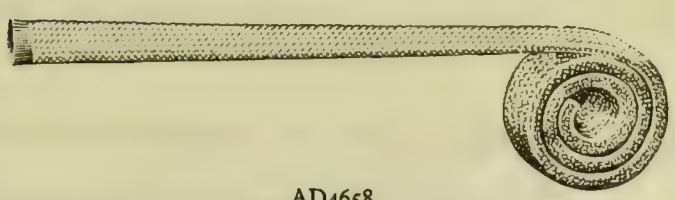
AD4812 Ditto .. with longitudinal serrations .. .. each



AD4813–4

AD4813 SATINSKY'S ANASTOMOSIS CLAMP, with cross serrations, 9¼ in., box-joint, type "B", stainless steel .. .. each

AD4814 Ditto .. with longitudinal serrations .. .. each

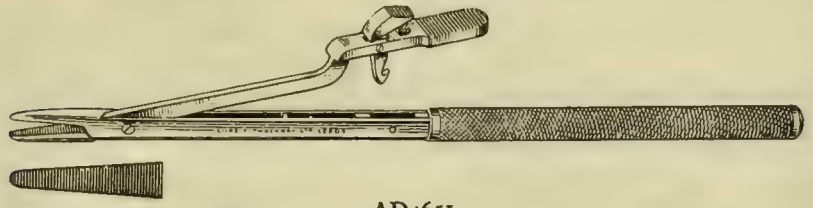


AD4658

Cat. No.

AD4658 MERCERISED COTTON SLEEVING, four widths: 2 mm., 2·5 mm., 3 mm. and 4 mm. .. .. per yard

For covering the jaws of clamps, etc., to render them non-traumatic.



AD4651

AD4651 POTTS-SMITH'S (modified) NEEDLE HOLDER, cut-through joint, 9 in., stainless steel .. .. each

Willis J. Potts, M.D., writes:

"*This instrument is used primarily for an aortic pulmonary anastomosis; the advantage being that one can hold the handle in two fingers and put the needle through and release the needle without having to move the instrument. This is not possible with the usual type of clamp hæmostat.*

"*Not infrequently, when one is doing an aortic anastomosis with an ordinary needle holder, the needle will snap or jiggle out of position as the hand is moved and the needle holder ratchet is being released.*"

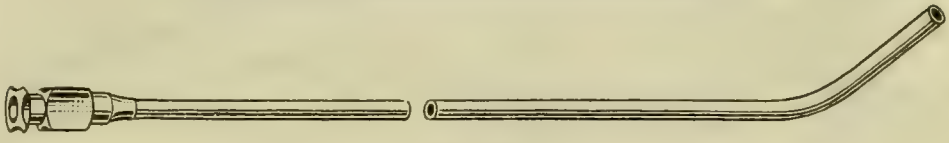


AD4815

AD4815 BATEMAN'S SUTURE PUSHER, 9½ in., stainless steel .. .. each

INSTRUMENTS FOR CARDIO-VASCULAR SURGERY

CARDIAC CATHETERS AND ELECTRODES



AD4816–21

AD4816 COURNAND'S CARDIAC CATHETER, single lumen, with terminal hole, sizes: 4 to 14 F.C.G., Luer-locking mount, 100 cm. long (Ref. 350) .. each

AD4817 Ditto .. 50 cm. long (Ref. 350–S) .. .. each

AD4818 Ditto .. 125 cm. long (Ref. 350–L) .. .. each

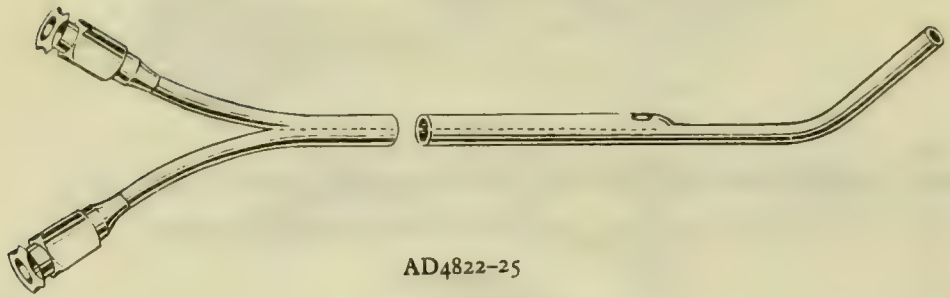
AD4819 Ditto .. 150 cm. long (Ref. 350–XL) .. .. each

All sizes referred to above as "F.C.G." are French Catheter Gauge.

ADDENDA

INSTRUMENTS FOR CARDIO-VASCULAR SURGERY

CARDIAC CATHETERS AND ELECTRODES



AD4822–25

Cat. No.

AD4822 COURNAND'S CARDIAC CATHETER, double lumen, with terminal hole and second opening 12 cm. from distal tip, sizes: 7, 8 and 9 F.C.G., Luer-locking mounts, 100 cm. long (Ref. 351) .. .. each

AD4823 Ditto .. 50 cm. long (Ref. 351–S) .. .. each

AD4824 Ditto .. 125 cm. long (Ref. 351–L) .. .. each

AD4825 Ditto .. 150 cm. long, size: 9 F.C.G. only (Ref. 351–XL) .. each

*AD4826 GOODALE-LUBIN CARDIAC CATHETER, single lumen with terminal hole and two lateral-opposed holes close to distal tip, sizes: 4 to 10 F.C.G., Luer-locking mount, 100 cm. long (Ref. 352) .. .. each

*AD4827 Ditto .. 50 cm. long (Ref. 352–S) .. .. each

*AD4828 Ditto .. 125 cm. long (Ref. 352–L) .. .. each

*AD4829 Ditto .. 150 cm. long, sizes: 5 to 10 F.C.G. only (Ref. 352–XL) .. each

*AD4830 Ditto .. 100 cm. long, sizes: 7, 8 and 9 F.C.G., tapering at distal end to 5½, 6½ and 7½ F.C.G. respectively (Ref. 352–T) .. .. .. each

*AD4831 GOODALE-LUBIN CARDIAC CATHETER, double lumen with terminal hole and two lateral-opposed holes close to distal tip, and second lumen opening 12 cm. from distal tip, sizes: 8 and 9 F.C.G., 100 cm. long (Ref. 352–D) each

*AD4832 Ditto .. 125 cm. long (Ref. 352–D) .. .. each

*AD4833 COURNAND'S ELECTRODE, consisting of electrode sealed in the distal tip and no opening for blood sampling, etc., size: 6 F.C.G., 100 cm. long (Ref. 350–E) each

†*AD4835 ELECTRODE CATHETER, similar to Cat No. AD4816 with the addition of an electrode ring flush with the surface of the catheter and situated close to the distal tip; the conductor is contained in the wall and attached to a terminal contact at the proximal end, sizes: 5 to 14 F.C.G., 100 cm. long (Ref. 353) .. each

†*AD4836 Ditto .. 50 cm. long (Ref. 353–S) .. .. each

†*AD4837 Ditto .. 125 cm. long (Ref. 353–L) .. .. each

The above catheters Nos. AD4816–37 *are manufactured by the United States Catheter and Instrument Corporation, and replace those enumerated on page* L447 *in the General Catalogue.*

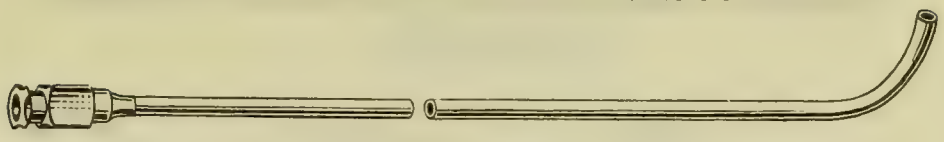
All sizes referred to above as "F.C.G." are French Catheter Gauge.

†*Can also be supplied with Platinum Electrode Ring to order.*

**Not illustrated*

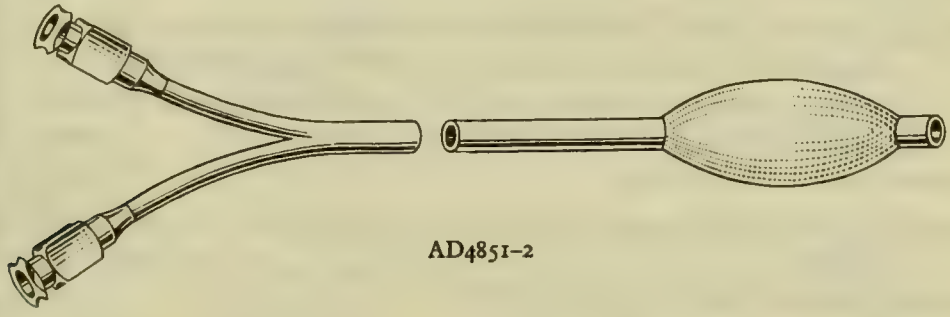
INSTRUMENTS FOR CARDIO-VASCULAR SURGERY

CATHETERS FOR ANGIOCARDIOGRAPHY AND THORACIC AORTOGRAPHY



AD4838–42

Cat. No.		
AD4838	LEHMAN'S AORTOGRAPHIC CATHETER, single lumen with terminal hole and very thin wall, distal end curved for 2½ cm., sizes: 4 to 12 F.C.G., Luer-locking mount, 30 cm. long (Ref. 350–A) .. .. each
AD4839	Ditto .. 50 cm. long .. .. each
AD4840	Ditto .. 80 cm. long .. .. each
AD4841	Ditto .. 100 cm. long .. .. each
AD4842	Ditto .. 125 cm. long, sizes: 5 to 12 F.C.G. only .. .. each
*AD4843	AORTOGRAPHIC CATHETER, with terminal hole and two additional lateral holes close to the distal tip, sizes: 5 to 12 F.C.G., Luer-locking mount, 50 cm. long (Ref. 352–A) .. .. each
*AD4844	Ditto .. 80 cm. long .. .. each
*AD4845	Ditto .. 100 cm. long .. .. each
*AD4846	Ditto .. 125 cm. long .. .. each
*AD4847	AORTOGRAPHIC CATHETER, N.I.H. PATTERN, with closed tip and four spirally-positioned lateral holes within 1½ cm. of the tip, sizes: 5 to 12 F.C.G., Luer-locking mount, 50 cm. long (Ref. 354) .. .. .. each
*AD4848	Ditto .. 80 cm. long .. .. each
*AD4848A	Ditto .. 100 cm. long .. .. each
*AD4848B	Ditto .. 125 cm. long .. .. each
*AD4849	AORTOGRAPHIC CATHETER, R.A. PATTERN, with closed tip and three pairs of laterally-opposed holes within 1 cm. of the tip, sizes: 5 to 8 F.C.G., Luer-locking mount, 100 cm. long (Ref. 355) .. .. .. each
*AD4850	Ditto .. 125 cm. long .. .. each



AD4851–2

AD4851	DOTTER-LUKAS CATHETER, No. 1., double lumen, one lumen opening into a balloon close to the tip, the other lumen opening at the tip, size: 8½ F.C.G., Luer-locking mount, 100 cm. long (Ref. 356–1) .. .. .. each
AD4852	Ditto .. 125 cm. long .. .. each

The above catheters are manufactured by the United States Catheter and Instrument Corporation, and replace those enumerated on page L447 in the General Catalogue.

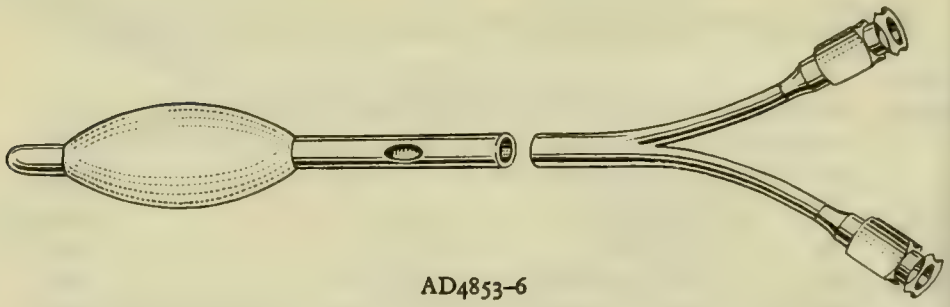
All sizes referred to above as "F.C.G." are French Catheter Gauge.

**Not illustrated*

ADDENDA

INSTRUMENTS FOR CARDIO-VASCULAR SURGERY

CATHETERS FOR ANGIOCARDIOGRAPHY AND THORACIC AORTOGRAPHY



AD4853–6

Cat. No.

AD4853 DOTTER-LUKAS CATHETER, No. 2, double lumen, one lumen opening into a balloon close to the tip, the other lumen opening 1 cm. proximal to the balloon, size: 8½ F.C.G., Luer-locking mounts, 100 cm. long (Ref. 356–2) each

AD4854 Ditto .. 125 cm. long .. .. each

AD4855 DOTTER-LUKAS CATHETER, No. 3, double lumen, similar to No. 2, but the second lumen opens 4 cm. proximal to the balloon, size: 8½ F.C.G., Luer-locking mounts, 100 cm. long (Ref. 356–3) .. .. .. each

AD4856 Ditto .. 125 cm. long .. .. each

*AD4857 DOTTER-LUKAS CATHETER, No. 4, single lumen opening into a balloon close to the tip, size: 8 F.C.G., Luer-locking mount, 100 cm. long (Ref. 356–4) .. each

*AD4858 Ditto .. 125 cm. long .. .. each

*AD4859 TRIPLE-LUMEN CATHETER, one lumen opening at the tip, one 4½ cm. proximal to the tip, and one into a balloon between the two, each lumen 5 F.C.G. in size. Overall size of catheter: 9 F.C.G., Luer-locking mounts, 100 cm. long (Ref. 356–TL) .. .. each

*AD4860 Ditto .. 125 cm. long .. .. each

*AD4861 DETERGICIDE, concentrated solution; 16 oz. bottle makes 167 gall. of 1 : 4000 dilution .. .. per bottle, each

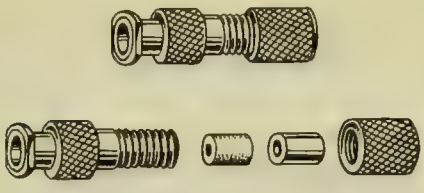
*AD4862 Spare wire Stillettes for 100 cm. catheters .. .. each

*AD4863 Ditto .. for 125 cm. catheters .. .. each

The above catheters are manufactured by the United States Catheter and Instrument Corporation, and replace those enumerated on page L447 *in the General Catalogue.*

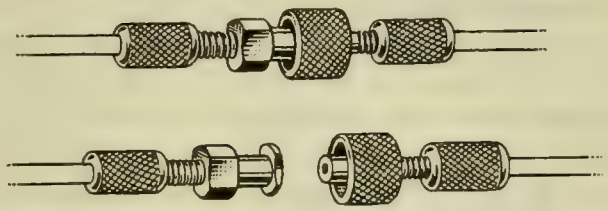
All sizes referred to above as "F.C.G." are French Catheter Gauge.

**Not illustrated*



AD4864–7

†AD4864 CARDIAC CATHETER ADAPTOR; this will fit a range of Ureteral or Cardiac Catheter sizes from 4 to 9 F.C.G. They can also be used with Plastic Tubing. Fitted with Luer-locking mount and supplied complete with two spare rubber bushes. Small size, for sizes: 4, 5 and 6 F.C.G. catheters .. .. each
†AD4865 Ditto .. medium size for sizes 7 and 8 F.C.G. catheters .. .. each
†AD4866 Ditto .. large size for size 9 F.C.G. catheters .. .. .. each
AD4867 Spare Rubber Bushes for above (state size required) .. .. per doz.



AD4868–79

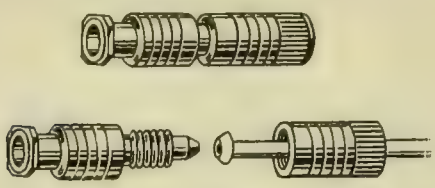
AD4868 POLYTHENE TUBING ADAPTOR, size 1 for attaching to No. 1 Polythene Tubing (bore 0·5 mm., wall 0·25 mm.), Luer-locking fitting .. per pair
*AD4869 Ditto .. Luer fitting .. .. per pair
*AD4870 Ditto .. Record fitting .. .. per pair
AD4871 Ditto .. size 2 for attaching to No. 2 Polythene Tubing (bore 1·0 mm., wall 0·25 mm.), Luer-locking fitting .. .. per pair
*AD4872 Ditto .. Luer fitting .. .. per pair
*AD4873 Ditto .. Record fitting .. .. per pair
AD4874 Ditto .. size 3, for attaching to No. 3 Polythene Tubing (bore 1·5 mm., wall 0·5 mm.), Luer-locking fitting .. .. per pair
*AD4875 Ditto .. Luer fitting .. .. per pair
*AD4876 Ditto .. Record fitting .. .. per pair
AD4877 Ditto .. size 4, for attaching to No. 4 Polythene Tubing (bore 2·0 mm., wall 0·5 mm.), Luer-locking fitting .. .. per pair
*AD4878 Ditto .. Luer fitting .. .. per pair
*AD4879 Ditto .. Record fitting .. .. per pair

When using the above adaptors the bore size is maintained throughout tubing and adaptor.

The above adaptors are normally supplied in pairs i.e., one each male and female fittings, but can be supplied separately if required.

†*Can also be supplied with male Luer-locking mount.*

**Not illustrated.*



AD4880–3

Cat. No.

†AD4880 TUBING ADAPTORS, for use with Polythene Tubing with flared end, tubing sizes as detailed in Cat. Nos. AD4868–79. Female Luer-locking fitting, size 1 for No. 1 tubing .. .. each

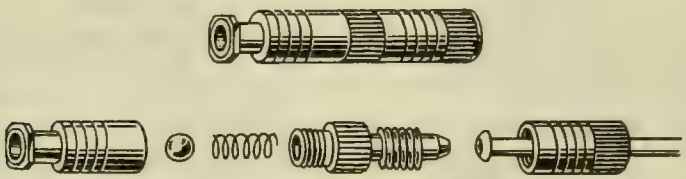
†AD4881 Ditto .. size 2 for No. 2 tubing .. .. each

†AD4882 Ditto .. size 3 for No. 3 tubing .. .. each

†AD4883 Ditto .. size 4 for No. 4 tubing .. .. each

Technique:

The Polythene Tubing is passed through the hole in the plain end of the adaptor. The end of the tubing is then held about ½ in. away from the flame of a match or burner, etc., and slowly rotated between the thumb and forefinger to produce a smooth symmetrical flare. The flare is then seated securely by screwing down the threaded portion of the adaptor, the tubing acting as its own gasket in making an air-tight closure whilst retaining the lumen size of the tubing.



AD4884–7

†AD4884 TUBING ADAPTOR similar to Cat. No. AD4880–3, but fitted with one-way ball valves, size No. 1 for No. 1 tubing .. .. each

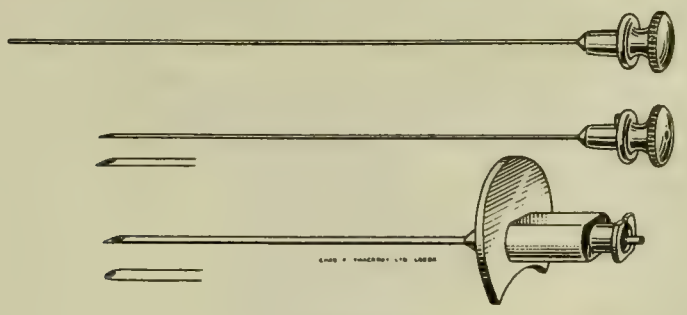
†AD4885 Ditto .. size 2 for No. 2 tubing .. .. each

†AD4886 Ditto .. size 3 for No. 3 tubing .. .. each

†AD4887 Ditto .. size 4 for No. 4 tubing .. .. each

The one-way ball valve permits solutions to be injected but prevents any backflow.

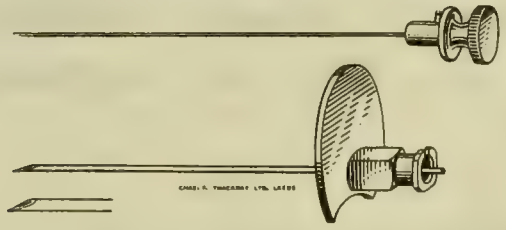
†*Can also be supplied with male Luer-locking mount to order.*



AD4888

Cat. No.

AD4888 COURNAND'S ARTERIAL PUNCTURE NEEDLE, consisting of outer needle, Luer-locking mount, size: 18 B.W.G. (thin walled) by 2-3/64 in. long, and flush fitting inner needle and mounted stilette, stainless steel .. each



AD4889

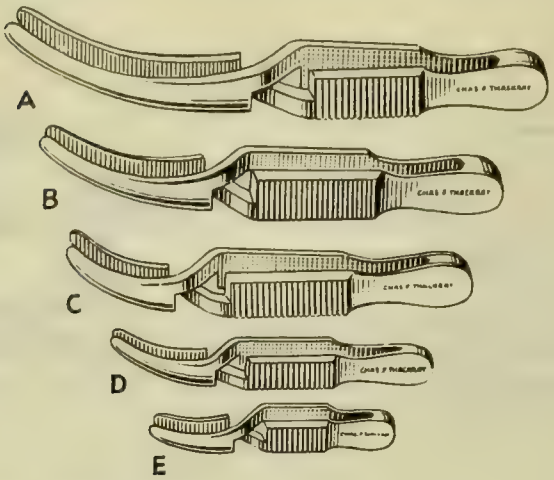
†AD4889 RILEY'S ARTERIAL PUNCTURE NEEDLE, consisting of needle, Luer-locking mount, size: 20 B.W.G. by 1½ in. long, and mounted stilette .. each

†Used to obtain a sample of arterial blood for analysis. The needle is inserted with the stilette withdrawn just behind the point of the needle. After the artery has been entered, the stilette is advanced to its fullest extent so that the needle can be advanced, preceded by the probe end of the stilette, which minimises damage to the intima.

Vide "Emergency Surgery" (John Wright & Sons Ltd.), 7th Edition, page 698, by Hamilton Bailey, F.R.C.S.

ADDENDA

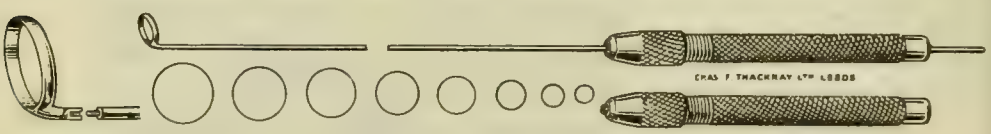
INSTRUMENTS FOR CARDIO-VASCULAR SURGERY



AD4890

Cat. No.

AD4890 BLALOCK'S CLAMPS, cross action, five sizes, A–E, stainless steel each



AD4891

†AD4891 CANNON'S ENDARTERECTOMY LOOPS, modified design, as made for Mr. H. S. Shucksmith, F.R.C.S., General Infirmary at Leeds, consisting of:

8 Loops on long wire handle, stainless steel (smallest size 2·25 mm. and largest size 8·5 mm. internal diameter of loop)

2 Chuck Handles, with cannulated stems, stainless steel

1 Perforated Metal Sterilizing Case to hold above, with rack for loops and chuck handles, drop-over lid, satin chrome finish

complete set

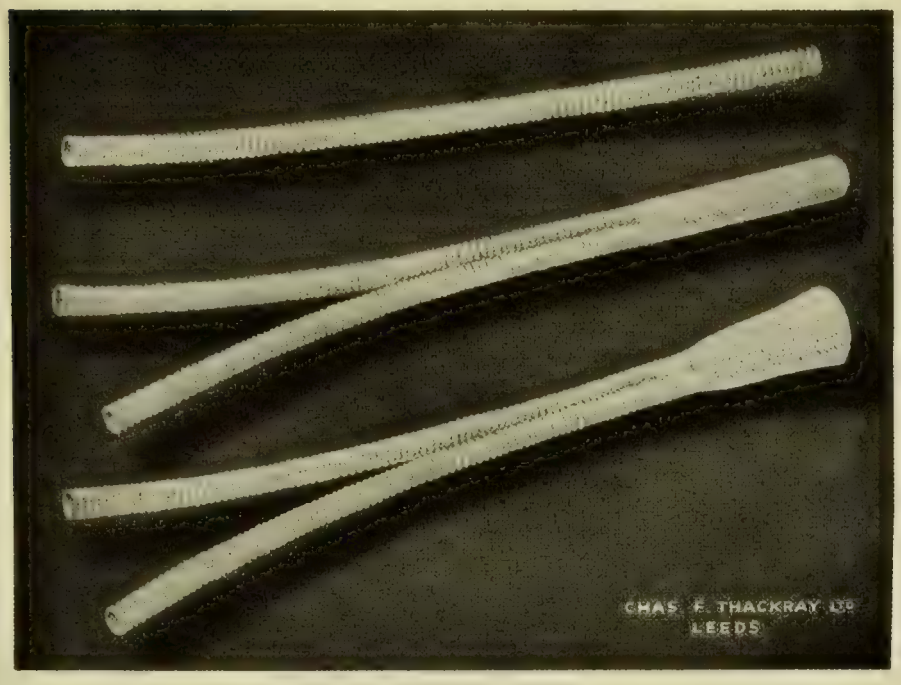
†*Used for closed endarterectomy. The loops are machined from a solid block of stainless steel and securely attached to the flexible stem in the same manner as a golf club (see enlarged view).*

Vide: "*Lancet*", *March* 21, 1959, *page* 601–5.

ADDENDA

INSTRUMENTS FOR CARDIO-VASCULAR SURGERY

Vascular Grafts and "TEFLON"[1] Products



←DISCONTINUED

AD4892–4903

Cat. No.

AD4892 EDWARDS' KNITTED "TEFLON"[1] ARTERIAL GRAFTS, corrugated, in lengths of 20 in. (51 cm.), diameters: $\frac{1}{4}$ in. (6·4 mm.), $\frac{5}{16}$ in. (8 mm.), $\frac{3}{8}$ in. (9·6 mm.) (Ref. 3040–K) .. .. each

AD4893 Ditto .. $\frac{1}{2}$ in. (12·8 mm.) .. .. each

AD4894 Ditto .. $\frac{5}{8}$ in. (16 mm.) .. .. each

AD4895 Ditto .. $\frac{3}{4}$ in. (19·2 mm.) .. .. each

AD4896 EDWARDS' WOVEN "TEFLON"[1] ARTERIAL GRAFTS, corrugated, in lengths of 20 in. (51 cm.), diameters: $\frac{1}{4}$ in. (6·4 mm.), $\frac{5}{16}$ in. (8 mm.), $\frac{3}{8}$ in. (9·6 mm.) (Ref. 3040–W) .. .. each

AD4897 Ditto .. $\frac{1}{2}$ in. (12·8 mm.) .. .. each

AD4898 Ditto .. $\frac{5}{8}$ in. (16 mm.) .. .. each

AD4899 Ditto .. $\frac{3}{4}$ in. (19·2 mm.) .. .. each

AD4900 Ditto .. 1 in. (25 mm.) .. .. each

AD4901 Ditto .. $1\frac{1}{4}$ in. (32 mm.) .. .. each

AD4902 EDWARDS' WOVEN AORTIC BIFURCATION of "TEFLON"[1], straight aortic end (no funnel), sizes: $\frac{11}{16}$ in. (17 mm.), $\frac{13}{16}$ in. (21 mm.) and 1 in. (25 mm.) aortic end (Ref. 3041–W) .. .. each

AD4903 EDWARDS' KNITTED AORTIC BIFURCATION OF "TEFLON"[1] with straight aortic end, sizes: $\frac{11}{16}$ in. (17 mm.), $\frac{13}{16}$ in. (21 mm.) and 1 in. (25 mm.) aortic end (Ref. 3041–K) .. .. each

Detailed literature available on application.

All the above items are manufactured by United States Catheter and Instrument Corp.

[1]*"TEFLON" is the trade name of E. I. Du Pont de Nemours & Co., Inc., for its PTFE fluorocarbon resin and fibre.*

(Not available for export.)

ADDENDA

INSTRUMENTS FOR CARDIO-VASCULAR SURGERY

"TEFLON"[1] Products—*continued*

Cat. No.

*AD4904 EDWARDS' INTRA-CARDIAC PATCHES OF "TEFLON"[1] for the closure of intraventricular septal defects in the heart, size 2 by 2 in. (5·1 by 5·1 cm.) (Ref. 3051) .. .. each

*AD4905 Ditto .. 3 by 3 in. (7·6 by 7·6 cm.) .. .. each

*AD4905A Ditto .. 4 by 4 in. (10 by 10 cm.) .. .. each

*AD4906 HARRISON'S INTERLOCKED MESH OF "TEFLON"[1] for the repair of large hernias and of defects resulting from destructive wounds or extensive cancer surgery; in sheets, size: 17 by 6 in. (43 by 15 cm.) (Ref. 3050) .. each

*AD4907 Ditto .. 17 by 12 in. (43 by 30 cm.) .. .. each

*AD4908 Ditto .. 8½ by 6 in. (21·5 by 15 cm) .. .. each

*AD4909 "TEFLON"[1] FELT, size: 2 by 2 in. (5·1 by 5·1 cm.); thickness: 1/16 in. (1·6 mm.), ⅛ in. (3 mm.), 3/16 in. (4·5 mm.), ¼ in. (6·4 mm.), ⅜ in. (9·6 mm.) (Ref. 3060) each

*AD4910 Ditto .. 3 by 3 in. (7·6 by 7·6 cm.), thickness as above .. .. each

*AD4911 Ditto .. 4 by 4 in. (10 by 10 cm.), thickness as above .. .. each

*AD4912 Ditto .. 6 by 6 in. (15 by 15 cm.), thickness as above .. .. each

*AD4913A BOHNSON TYPE AORTIC VALVE LEAFLETS OF "TEFLON"[1], available even sizes, 24–36 mm. and 40 mm. .. .. each

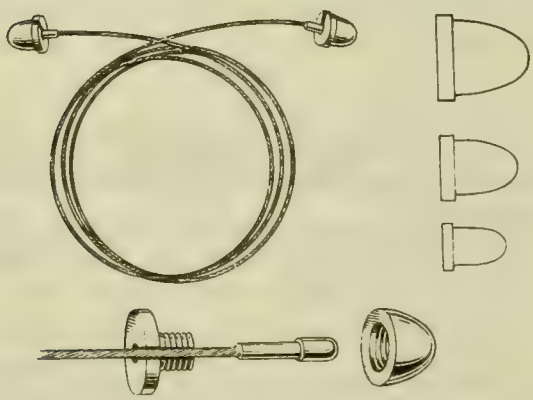
Detailed literature available on application.

All the above items are manufactured by United States Catheter and Instrument Corp.

[1]*"TEFLON" is the trade name of E. I. Du Pont de Nemours & Co., Inc., for its PTFE fluorocarbon resin and fibre.*

(Not available for export.)

**Not Illustrated*



AD4917–21

†AD4917 GRAVES' modified MYERS' VEIN STRIPPER, consisting of flexible twisted stainless steel wire 36 in. long, with three pairs of detachable stripper ends, sizes: ½ in., ⅜ in. and ¼ in. diameter .. .. set

†*In Graves' improved design there is a small introducing knob at each end of the wire. Thus, the wire may be introduced into the vein from either above or below, and a stripping head attached to whichever end is the more convenient for stripping. Three sizes of detachable heads have been provided in the latest model.*

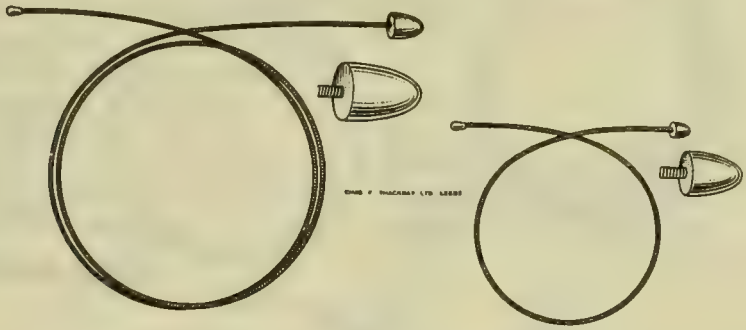
Vide: "Lancet", October 29, 1955, page 909.

INSTRUMENTS FOR CARDIO-VASCULAR SURGERY

GRAVES' modified MYERS' VEIN STRIPPER (*continued*)

Cat. No.

AD4918	Spare stainless steel wire for above	each
AD4919	Spare stripper ends, $\frac{1}{2}$ in. diam. for above	pair
AD4920	Ditto .. .. .. $\frac{3}{8}$ in. diam.	pair
AD4921	Ditto .. .. .. $\frac{1}{4}$ in. diam.	pair



AD4659–60 AD4661

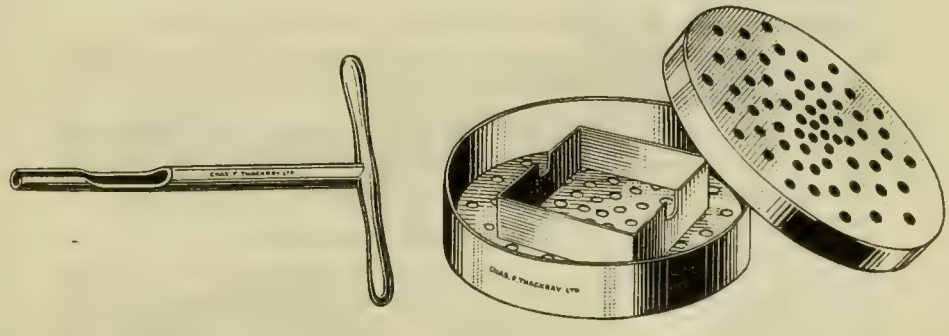
AD4659 MYERS' VEIN STRIPPER, consisting of flexible twisted stainless steel wire 35 in. long with small acorn head and one stripper head $\frac{1}{2}$ in. diam. .. each

AD4660 Ditto .. with stripper head $\frac{3}{8}$ in. diam. .. .. each

AD4661 Ditto .. with stripper head $\frac{1}{4}$ in. diam. on 12 in. flexible twisted stainless steel wire .. .. each

IMPORTANT NOTE ON VEIN STRIPPERS:

All the above strippers are now supplied with multi-strand twisted stainless steel wire for flexibility and added strength. The ends of the wire are attached to the introducing knob or head in such a way as to minimise the risk of detachment or breakage in actual use.



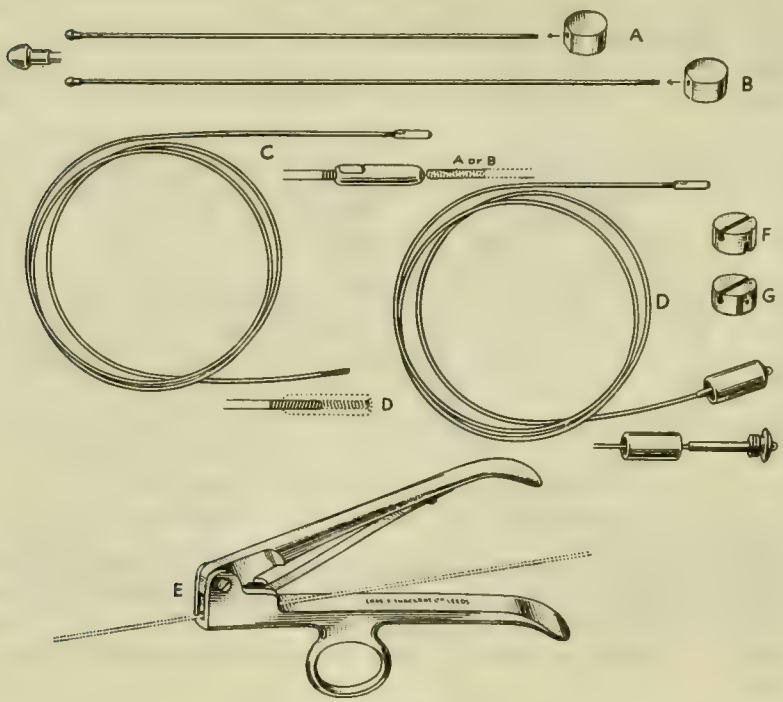
AD4922 AD4923

AD4922 HANDLE for VEIN STRIPPERS, universal for Graves' and Myers' patterns, chromium plated .. .. each

AD4923 CASE, metal, chromium plated, to contain selected strippers and handle for sterilization or storage .. .. each

ADDENDA

INSTRUMENTS FOR CARDIO-VASCULAR SURGERY



AD4662

Cat. No.

AD4662 SWANSON'S VEIN STRIPPER, consisting of:

One Introducer (A) of flexible brass wire, with olivary tip and threaded end, 8 in. long, and a stainless steel protective stud. *Threaded end fits union piece on Guide Wire (C).*

One Ditto (B) 10 in. long. *Threaded end fits union piece on Guide Wire (C).*

One Guide Wire (C), flexible brass, 38 in. long, threaded at both ends, with an olivary union piece to fit Introducers (A or B). *Threaded end fits union piece on Stripper (D).*

One Stripper on Wire (D) consisting of stainless steel cylinder screwed on to a stud at one end and a cutting edge directed downwards and inwards at the lower end. The stud is fixed on to 38 in. of flexible brass wire threaded at end with an olivary union piece to fit Guide Wire (C).

One Traction Handle (E), stainless steel, to grip Stripping Wire.

Two Studs (F and G), stainless steel; F has two transverse grooves, G has one groove and one threaded hole. With these studs the stripping wires are coiled and the studs arranged to clip the wires together conveniently for sterilizing. The threaded hole in stud (G) is for attaching to an unprotected thread on a wire.

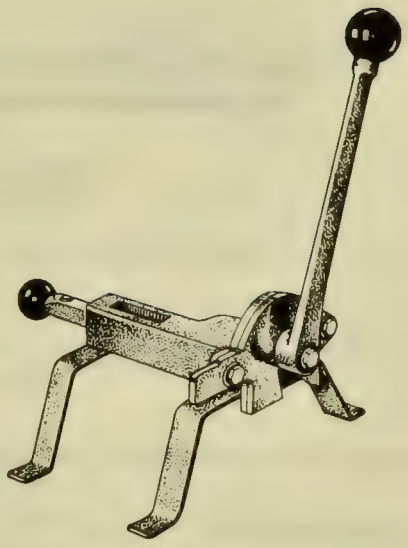
SET of all the above parts .. .. complete

The stainless steel cylinder has a cutting edge directed downwards and inwards which will divide branches by cutting and at the same time avoid trauma to the perivenous tissues.

Vide "Glasgow Medical Journal", May 1953, vol. 34, pages 201–207.

SUITABLE FOR SHEARING BOTH CORTICAL AND CANCELLOUS BONE INTO CRUMBS, WHICH CAN BE COLLECTED IN A CONTAINER.

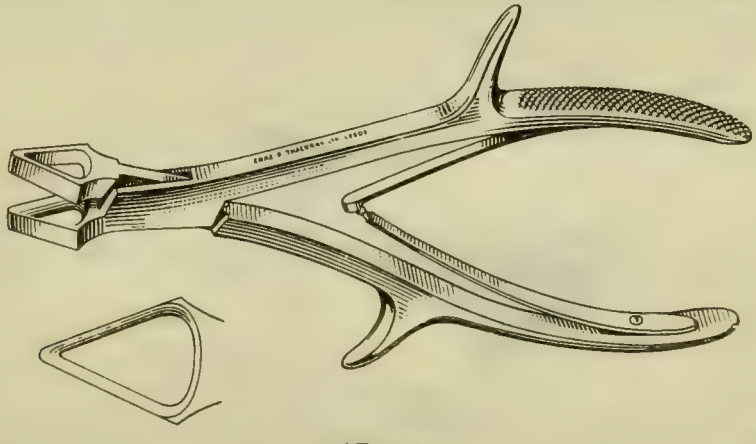
EASY TO ASSEMBLE OR DISSEMBLE AND TO OPERATE; NO BOLTS, NUTS OR SCREWS TO ADJUST.



AD4925

Cat. No.

AD4925 ROGER ANDERSON'S BONE CRUMBLING MILL, aluminium alloy, with anodised finish .. .. each

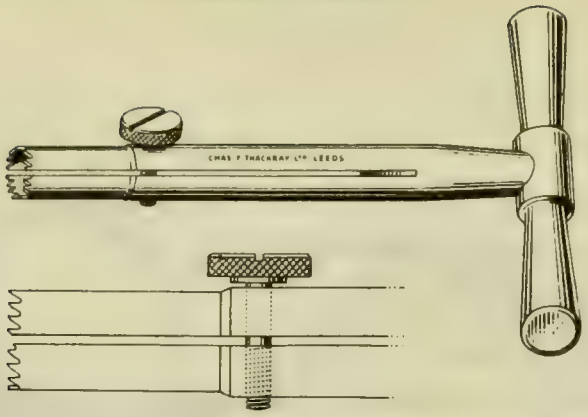


AD4926

AD4926 LEWIN'S BONE CRUMBLING FORCEPS, box-joint, 8½ in. stainless steel, each

ADDENDA

BONE INSTRUMENTS



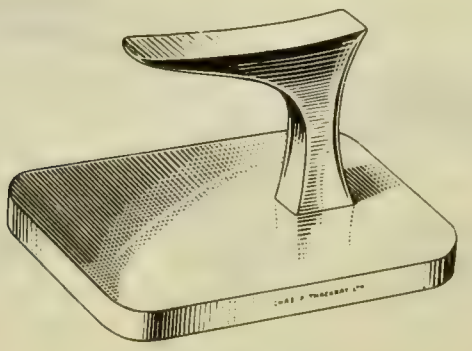
AD4927

Cat. No.

†AD4927 CHARNLEY'S BONE-GRAFT TREPHINE, ½ in. diameter, stainless steel, each

†Mr. John Charnley writes:

"This trephine has proved very useful for removing small cylinders of cancellous bone from the full thickness of the iliac crest for the purpose of bone-graft, interbody spinal fusions, and bone biopsies. The essential feature of the trephine is that the specimen can be removed almost "blind" through a small incision and, having pierced the full thickness of the iliac crest, the bi-valved trephine is closed down by means of the knurled screw to pinch the enclosed coring, which can then be avulsed. Without this pinching device the coring would be left behind, due to the attachment of muscles on the deep surface. The corings are one-half-an-inch in diameter and the length is anything up to one inch according to the position in the iliac crest from which the coring is removed. As an adjuvant to plating the tibia two corings are quite adequate when chipped into small pieces to promote bridging of the fracture line (see Charnley "Compression Arthrodesis", page 24, E. & S. Livingstone, Edinburgh, 1953)".

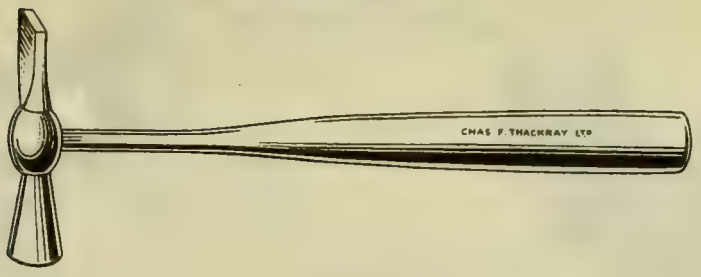


AD4928

AD4928 ANVIL for HAND SURGERY, solid brass, dull chromium plated .. each

ADDENDA

BONE INSTRUMENTS



AD4929

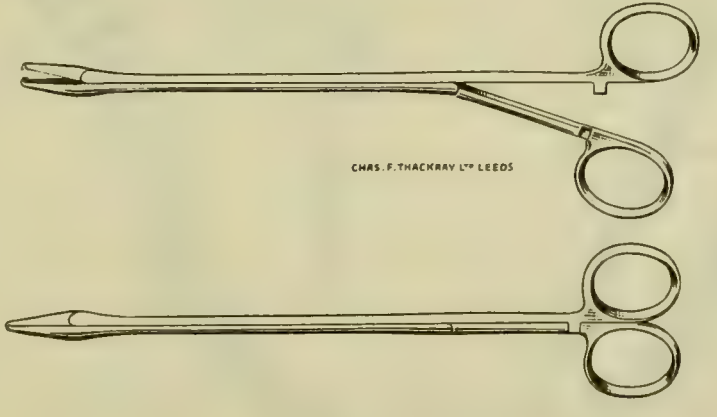
Cat. No.

AD4929 HAMMER for HAND SURGERY, solid brass, dull chromium plated .. each



AD4930

†AD4930 BRAND'S PLANTARIS STRIPPER, cutting end 6 mm. internal diameter, mounted on shaft 18 in. long, stainless steel.. .. .. .. each



AD 4931A ANDERSEN'S TENDON TUNNELLING FORCEPS, 9½ in. long, with slender shaft and "cobra head" jaws, serrated, two into three teeth, stainless steel.

AD 4932A Ditto .. 7½ in. long.

ADDENDA

BONE INSTRUMENTS



AD4933

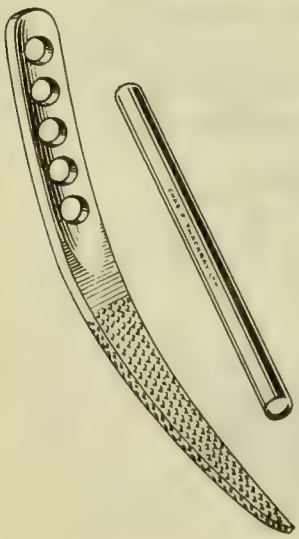


AD4934

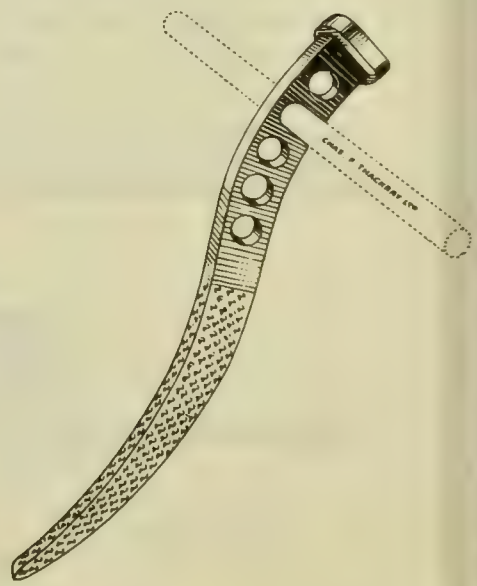
Cat. No.

AD4933 F. R. THOMPSON'S HIP PROSTHESIS, †stainless steel, length of stem $4\frac{1}{8}$ in.
Head diameters: $1\frac{5}{8}$ in., $1\frac{3}{4}$ in., $1\frac{7}{8}$ in., and 2 in. .. .. .. each

AD4934 AUSTIN MOORE'S HIP PROSTHESIS, †stainless steel;
Head diameters: $1\frac{5}{8}$ in., $1\frac{3}{4}$ in., $1\frac{7}{8}$ in., 2 in., $2\frac{1}{8}$ in.
Stem lengths: 5 in., 5 in., $5\frac{1}{2}$ in., 6 in., 6 in. .. .. each



AD4935



AD4936

AD4935 RASP for F. R. THOMPSON'S HIP PROSTHESIS, stainless steel .. each
AD4936 RASP for AUSTIN MOORE'S HIP PROSTHESIS, stainless steel .. each

†*Made of Austenitic Stainless Steel, British Standard Specification* EN58J.

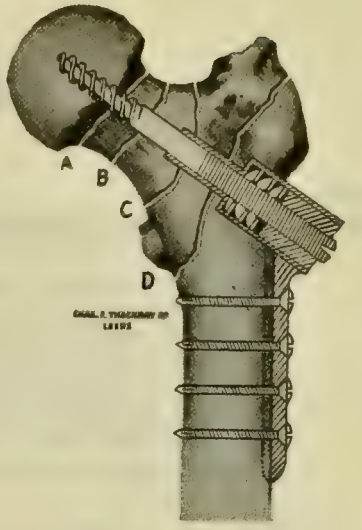
ADDENDA

BONE INSTRUMENTS

★CHARNLEY'S COMPRESSION SCREW

with Sleeved Angle-Plate

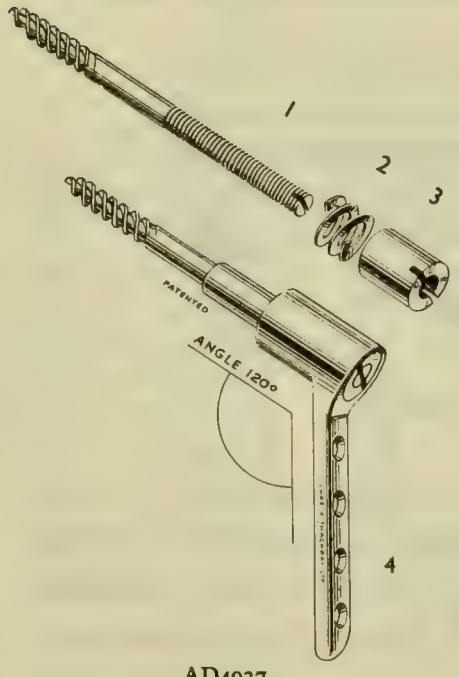
British Patent No. 735628—other patents pending in principal countries of the world.



**A new appliance for the operative treatment of Intracapsular and Extracapsular Fractures of the Neck of the Femur.*

A. Sub-capital fractures
B. Trans-cervical fractures
C. Basal fractures
D. Inter-trochanteric fractures without comminution

The above are typical fractures of the hip which can be successfully treated by means of this new appliance.



AD4937

The component parts of this new appliance consist of:

1 Compression screw, four inches long.

2 Compression spring, acting over range of 6 mm., exerting a force of 25 lbs. when fully compressed.

3 Cylindrical nut.

4 Sleeve with plate fixed at angle of 120 degrees.

Cat. No.

AD4937 CHARNLEY'S COMPRESSION SCREW, with sleeved angle-plate, for fractures of the neck of the femur, complete with spring and cylindrical nut, †stainless steel, each

SCREWS FOR FIXING BRACKET PLATE TO SHAFT OF FEMUR—SEE PAGE AD909.

SIZES NORMALLY USED ARE 1¼ in., 1⅜ in. or 1½ in. long.

†*Made of Austenitic Stainless Steel, British Standard Specification,* EN58J.

**Vide "The Treatment of Displaced Fractures of the Neck of the Femur by Compression", pp. 45–65, Journal of Bone and Joint Surgery, Feb., 1957.*

"The Treatment of Fractures of the Neck of the Femur by Compression", Acta Orthopaedica Scandinavica, Vol. xxx, Fasc. 1, 1960

ADDENDA

BONE INSTRUMENTS
CHARNLEY'S COMPRESSION SCREW
(continued)



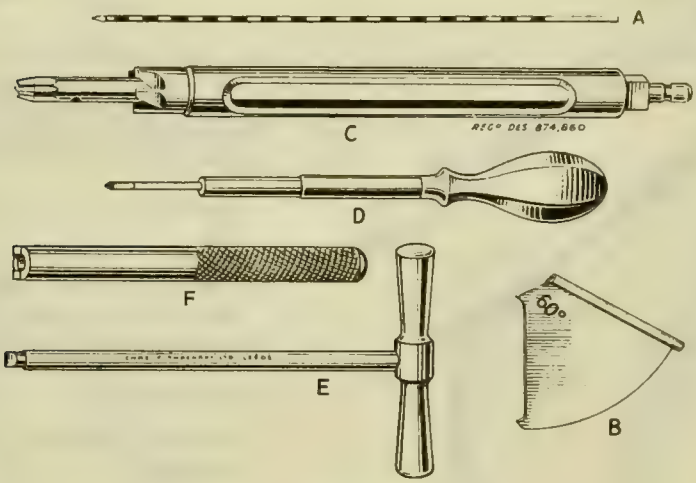
AD4938

Cat. No.

AD4938 CHARNLEY'S "LIFE-SAVER" SCREW, 4 in. long, with cylindrical nut, *stainless steel .. .. each

CHARNLEY'S "LIFE-SAVER" SCREW. This is an extra-large screw which has been devised for use in femoral heads with soft bone, The helical thread portion is $\frac{1}{2}$ in. diameter (as compared with $\frac{5}{16}$ in. diameter of standard screw) but all other dimensions are the same as the standard screw. In cases where the standard screw fails to hold at the time of operation, the "Life-saver" screw is inserted in its track, the sleeved angle-plate having been first removed and then replaced over the projecting end of the screw for completion of the operation by the standard technique.

**Made of Austenitic Stainless Steel, British Standard Specification,* EN58J.



AD4939

AD4939 CHARNLEY'S ANCILLARY INSTRUMENTS for inserting compression screw with sleeved angle-plate, consisting of:

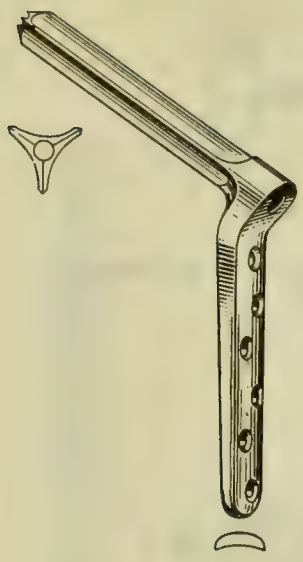
GUIDE-WIRE, 9 in., 2·5 mm. diameter (Cat. No. B2628), *$\frac{1}{4}$ in. copper-plate graduations (A).

METAL PROTRACTOR, with tubular guide for wire, 60 degree angle, stainless steel (B).
COUNTER-BORING TOOL, cannulated, with fenestrated shaft through which projecting guide-wire is continuously in view, for cutting a recess suitable for sleeved angle-plate (Regd. Des. No. 874, 860), stainless steel (C).
TAPPING DRILL, stainless steel on chromium-plated handle (D).
SCREWDRIVER, T-Handled, stainless steel (E).
CYLINDRICAL SPANNER, for tightening nut of compression screw, stainless steel (F).
set complete

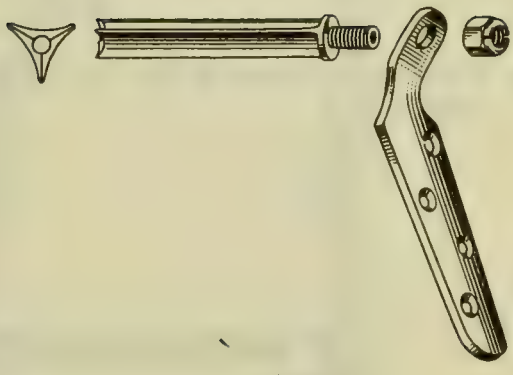
‡AD4940 BRACE, "wide-throw", for use with Counter-boring tool, stainless steel, each

**Guide-wire can be supplied with metric graduations on request.*

‡*Not illustrated. See Item (A) of Cat. No.* B2607A *for details.*



AD4941



AD4942–6

Cat. No.

†AD4941 JEWETT'S INTERTROCHANTERIC NAIL PLATE, modified pattern, solid forged, with six-hole plate; available in five cannulated nail lengths: 3 in., 3¼ in., 3½ in., 3¾ in., and 4 in., and four angles: 120°, 130°, 140° and 150°, *stainless steel .. .. each

AD4942 McKEE'S HIP NAIL, trifin, with 2·5 mm. cannulation, and self-locking nut, sizes: 2¼ in., 2¾ in., 3 in., 3¼ in., 3½ in., 3¾ in., 4 in., 4¼ in., 4½ in., 4¾ in., 5 in., 5¼ in. and 5½ in., *stainless steel .. .. each

†AD4943 McKEE'S BRACKET PLATE, with four holes, *stainless steel .. each

†AD4944 Ditto .. with six holes .. .. each

†AD4945 Ditto .. with four slots .. .. each

†AD4946 Ditto .. with single slot .. .. each

†SCREWS FOR USE WITH ABOVE, SEE PAGE AD909.

**Made of Austenitic Stainless Steel, British Standard Specification,* EN58J.



AD4947

AD4947 McKEE'S NAIL DRIVER and EXTRACTOR, stainless steel .. each

ADDENDA

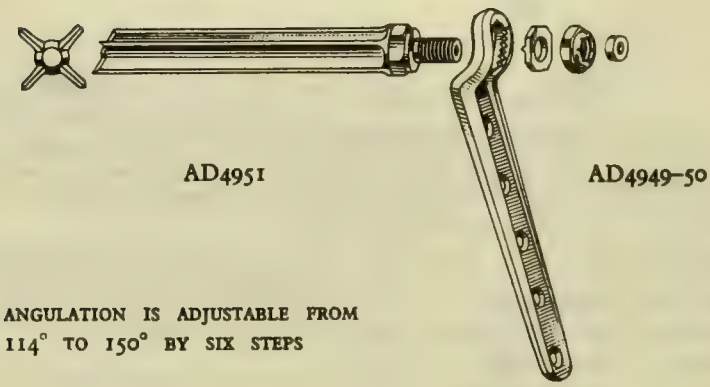
BONE INSTRUMENTS



AD4948

Cat. No.

AD4948 McKEE'S BOX SPANNER, with "T"-shaped handle, to fit self-locking nut, stainless steel .. .. each



AD4951

AD4949–50

ANGULATION IS ADJUSTABLE FROM 114° TO 150° BY SIX STEPS

‡AD4949 McLAUGHLIN type adjustable INTERTROCHANTERIC APPLIANCE, model V, †*Vitallium;* bracket plate only, size: 3¾ in. long with 5 holes; complete with washer and elastic stop-nut to ensure a positive lock .. .. each

‡AD4950 Ditto .. 5¼ in. long with 7 holes .. .. each

*AD4951 SMITH-PETERSEN type FOUR-FLANGED NAIL, †*Vitallium*, for use with above, with cannulation for guide wire; sizes: 3 in., 3¼ in., 3½ in., 3¾ in., 4 in., 4¼ in., 4½ in., 5 in., 5¼ in., 5½ in., 5¾ in. and 6 in. .. .. .. each

§AD4952 NAIL STARTER, FOUR FLANGED, for use with above, stainless steel, each

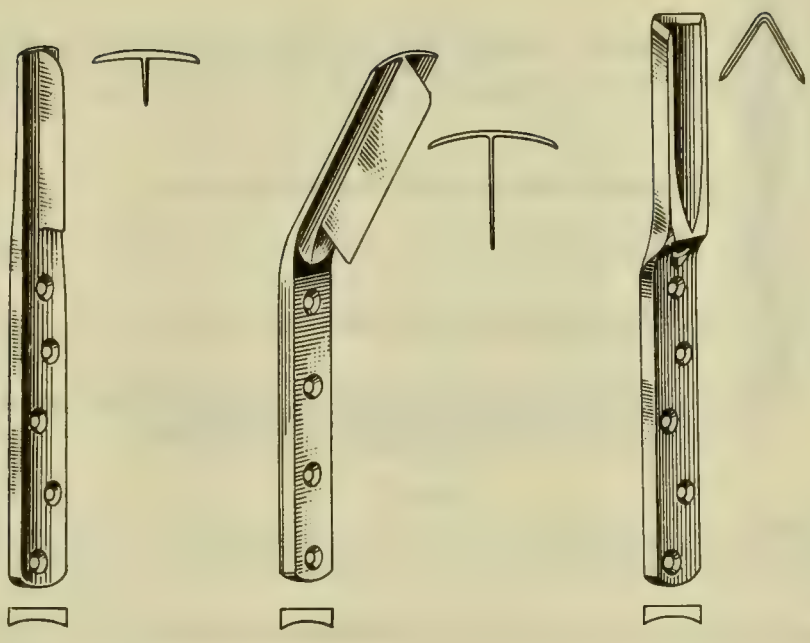
‡SCREWS FOR USE WITH ABOVE, SEE PAGE AD909.

**Four-flanged nails have tapered points to provide a leading edge for introduction and are 25% stronger than three-flanged types.*

§Not illustrated.

†*An alloy, approximately: cobalt* 65%, *chromium* 30%, *and molybdenum* 5%.

BONE INSTRUMENTS



AD4953–4 AD4955 AD4956–7

Cat. No.

†AD4953 BOSWORTH'S INTRAMEDULLARY SPLINE, 5 in., *stainless steel, each

†AD4954 Ditto .. 6 in. .. .. each

†AD4955 ROWLAND HUGHES' OSTEOTOMY SPLINE, three angles: 140°, 150° and 160°, *stainless steel .. .. each

†AD4956 NICOLL'S TYPE BLADE PLATE, with threaded hole for introducer, *stainless steel; 2½ in. blade with 4 in. plate, 5 holes .. .. each

†AD4957 Ditto .. with 3 in. plate, 3 holes .. .. each

†SCREWS FOR USE WITH ABOVE, SEE PAGE AD909.

**Made of Austenitic Stainless Steel, British Standard Specification*, EN58J.

ADDENDA

BONE INSTRUMENTS



AD4958–61

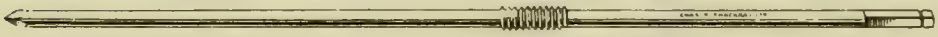
Cat. No.

†AD4958 KESSEL'S OSTEOTOMY PLATE, *stainless steel, 5 in. long by ⅛ in. thick .. .. .. each

†AD4960 Ditto .. 6 in. long by ⅛ in. thick .. each

†SCREWS FOR USE WITH ABOVE PLATES—SEE PAGE AD909.

**Made of Austenitic Stainless Steel, British Standard Specification,* EN58J.



AD4962

Cat. No.

AD4962 DENHAM'S modified STEINMANN'S PIN, threaded near mid-point, stainless steel; size: 8 in. long by 4 mm. thick .. .. each



AD4963–4

†AD4963 STEINMANN'S PINS, with "DIAMOND" DRILL POINT, stainless steel; two lengths: 8 in. and 10 in. by 4 mm. diameter .. .. .. each

†AD4964 Ditto .. 8 in. and 10 in. by 5 mm. diameter .. .. .. each

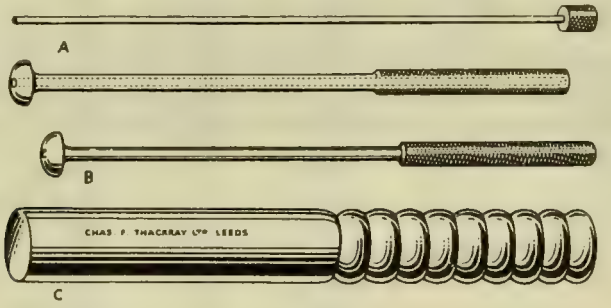
†*The flattened "diamond" drill point provides easier penetration of cortical bone. Note: drill point is the same diameter as the pin.*



AD4965

Cat. No.

AD4965 LOWE and BRECK'S KNEE JOINT KNIFE, stainless steel, with chromium plated handle and guard .. .. each



AD4966

‡AD4966 SMILLIE'S INSTRUMENTS for OSTEOCHONDRITIS DISSECANS, stainless steel, consisting of: Nail Gun and Pusher (A); Nail Punch (B); Circular Hammer (C) .. .. set



AD4967

‡AD4967 SMILLIE'S NAILS, for OSTEOCHONDRITIS DISSECANS, $\frac{1}{16}$ in. diameter, with grooved head to facilitate removal, *stainless steel; three sizes: $\frac{3}{4}$ in., 1 in., and $1\frac{1}{4}$ in. long .. .. each

"In addition to the treatment of osteochondritis dissecans, these nails are used in fractures of the phalanges, metacarpals and carpal bones, fractures of the medial epicondyle and all fractures of articular surfaces where small fragments require internal fixation." —*I. S. SMILLIE, O.B.E., Ch.M., F.R.C.S.(Ed.).*



AD4968

‡AD4968 SMILLIE'S EXTRACTOR, for removing nails, forked end, stainless steel, each

**Made of Austenitic Stainless Steel, British Standard Specification,* EN58J.

CONTINUED OVERLEAF

ADDENDA

BONE INSTRUMENTS



AD4969

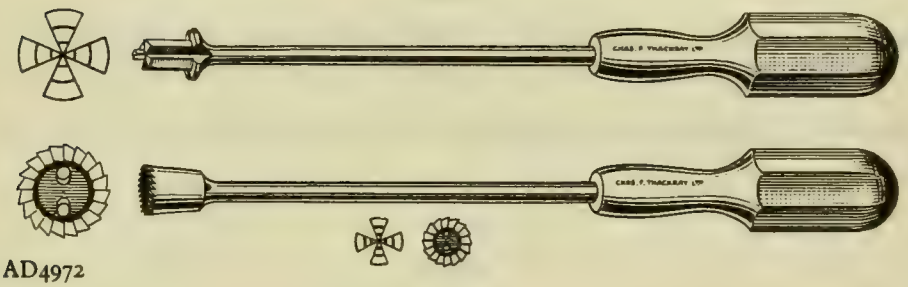
Cat. No.

‡AD4969 SMILLIE'S TREPHINE, stainless steel .. .. each

‡AD4970 MODIFIED DENTAL EXTRACTION FORCEPS, with fine points, for removing nails, stainless steel (*not illustrated*) .. .. .. each

‡The Cannulated Nail Gun (Cat. No. AD4966(A)) is fitted with a retaining spring in its distal end to enable a nail to be pre-loaded and then inserted by the pusher. The final driving home is accomplished with the Punch (B) which has a rounded end to avoid damage to the articular cartilage.

Vide: "The Treatment of Osteochondritis Dissecans" by I. S. Smillie, O.B.E., Ch. M., F.R.C.S.E., Journal of Bone and Joint Surgery, May 1957, *pages* 248–260.



AD4972

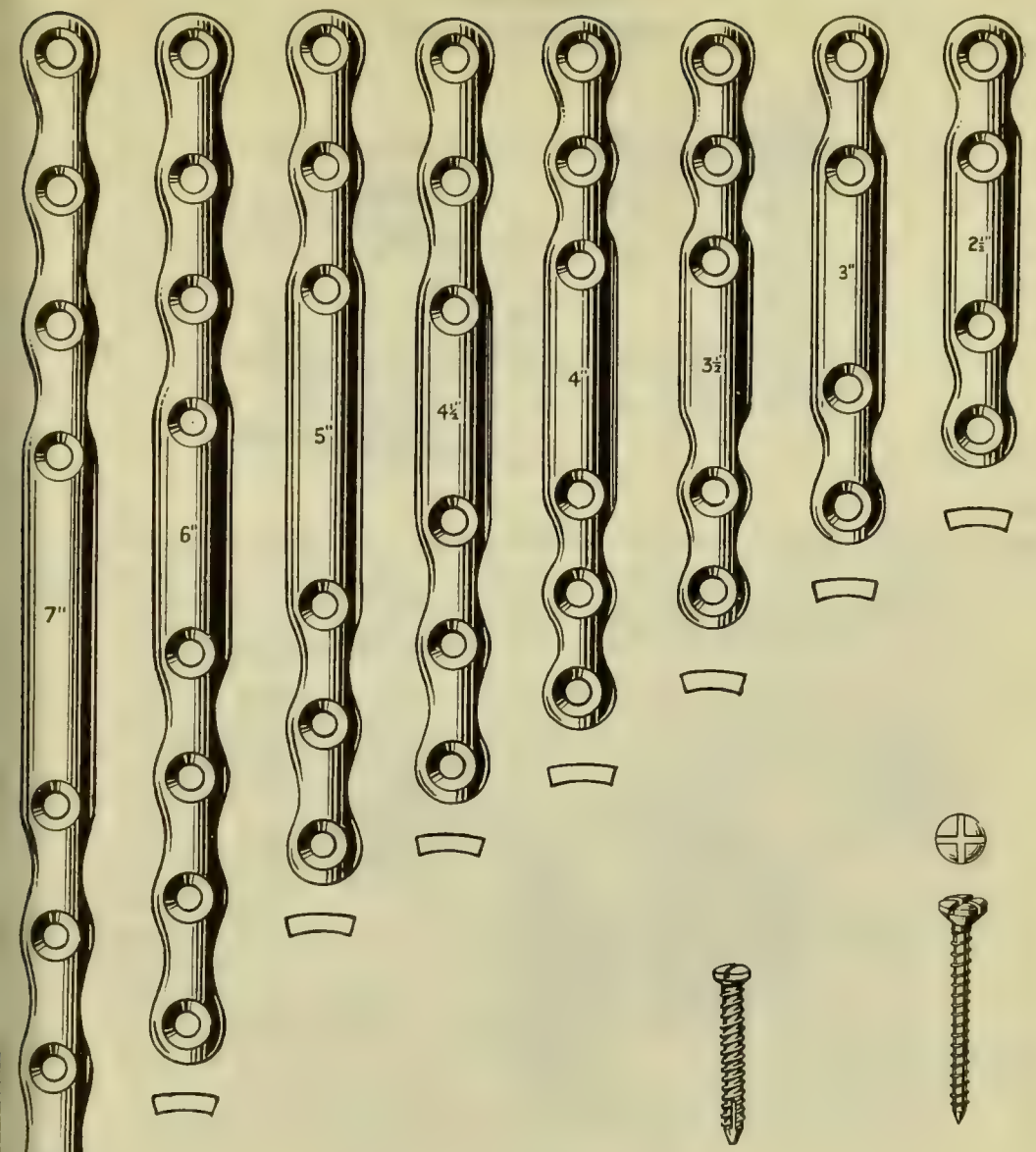
AD4971

†AD4971 FITTON'S DRILL with matching TREPHINE, small size for arthrodesis of the toes, stainless steel on chromium plated handle .. .. set of two

†AD4972 Ditto .. large size, for arthrodesis of the big toe .. .. set of two

†"*The smaller instruments are used to fuse the inter-phalangeal joints of the toes. The aim is to produce a cylindrical peg and socket which fit securely into each other. There are two important practical details. The head of the phalanx must be roughly shaped with bone forceps before the peg is reamed. The reamer must include a part of the cortex of the phalanx lest the peg be too fragile.*

"*The larger instruments are used to fuse the metatarso-phalangeal joint of the hallux. The peg is made from the base of the phalanx which must first be dissected free and roughly shaped with bone cutting forceps. The socket is made in the head of the metatarsal.*"—*J. M. FITTON, F.R.C.S.*, St. James's Hospital, Leeds 9.



AD4973 B2680 B2681A

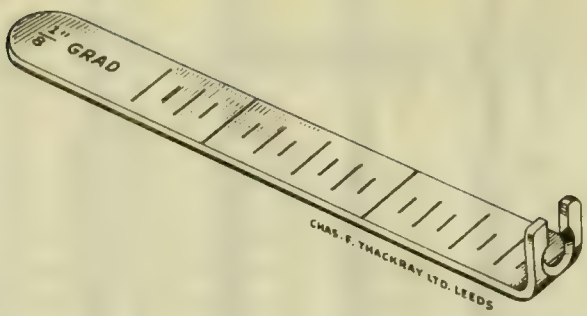
Cat. No.

AD4973	BURNS' BONE PLATES, †stainless steel, eight sizes: 2½ in., 3 in., 3½ in., 4 in., 4½ in., 5 in., 6 in. and 7 in. .. .. each
B2680	SHERMAN'S BONE SCREWS, coarse thread, $\frac{9}{64}$ in. diameter, †stainless steel, sizes ⅜ in., ½ in., ⅝ in., ¾ in., ⅞ in., 1 in., 1⅛ in., 1¼ in., 1⅜ in., 1½ in., 1⅝ in., 1¾ in., 1⅞ in., 2 in., 2¼ in., 2½ in., 2¾ in. and 3 in. lengths of shaft .. .. each
B2681	Ditto .. ‡Vitallium, sizes up to 2 in. only .. .. .. each
B2681A	R.N.O.H. PATTERN SCREWS, †stainless steel, with cross slotted heads, sizes: ½ in., ⅝ in., ¾ in., ⅞ in., 1 in., 1⅛ in., 1¼ in., 1⅜ in., 1½ in., 1⅝ in., 1¾ in. and 2 in., each

†*Made of Austenitic Stainless Steel, British Standard Specification* EN58J.
‡*An alloy, approximately: cobalt* 65%, *chromium* 30% *and molybdenum* 5%.

ADDENDA

BONE INSTRUMENTS

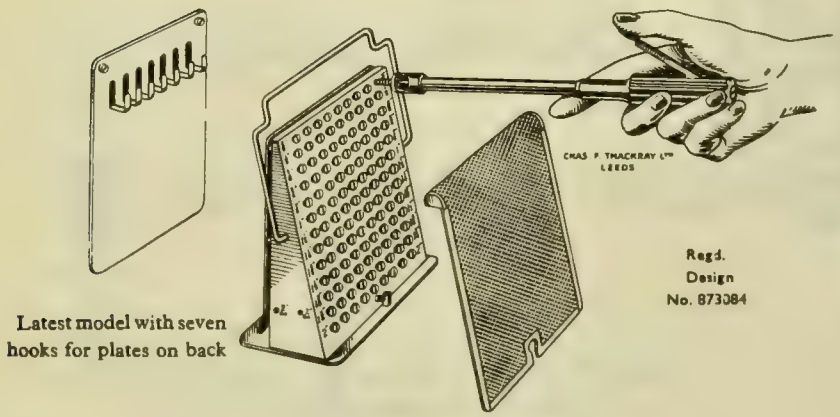


AD4974

Cat. No.

†AD4974 HALL'S BONE-SCREW MEASURING DEVICE, $\frac{1}{8}$ in. graduations; stainless steel .. .. each

†*Vide: The "Lancet", October 8th, 1955, page 753.*



Latest model with seven hooks for plates on back

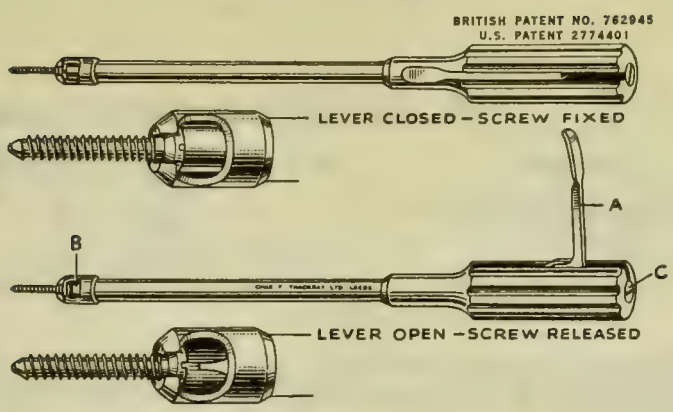
Williams' Screwdriver see Fig. B2703 *page* AD911.

B2685

B2685 WILLIAMS' HOLDER, for bone screws, improved model with thirteen rows of nine holes, for screw sizes $\frac{3}{8}$ in. to 2 in.; holes in sides for gauging $\frac{7}{64}$ in. and $\frac{9}{64}$ in. drill points; aluminium, with stainless steel base, back and handle. Complete with perforated metal cover to secure screws during sterilization, *without screws*, each

The screwheads protrude to facilitate quick removal with a Williams' Screwdriver; screws can be loaded straight from the holder ready for immediate use.

NOTE.—For lifting the holder from the sterilizer, a "Dundee" pattern Sterilizer Forceps (heavy type) Cat. No. G708, *page* G107, *is recommended.*



B2703

Cat. No.

†B2703 †WILLIAMS' IMPROVED AUTOMATIC SPRING-LOADED SCREW-DRIVER (Patented), fitted with quick-action recessed lever in handle for fixing and releasing screw, stainless steel, anodised aluminium handle, in card box with full instructions .. .. each

This new improved instrument greatly facilitates the fixing of screws during surgical operations. It is an adaptation of an existing accepted pattern in which the screw fixing device at the base of the handle has been replaced by a *quick-action lever recessed in the handle.* It is merely necessary to close or open the lever (A) to fix or release a screw from the shaped recess (B) in the end of the tubular shaft—a matter of a mere second or so. The lever, being centrally placed in relation to the screw-slot, is suitable for both right and left handed operators.

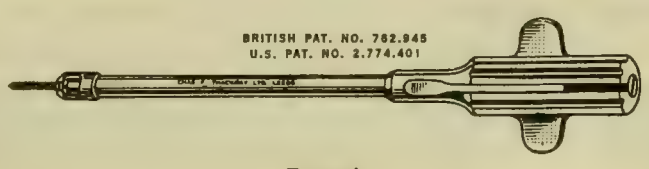
The upper illustration shows the screwdriver ready for use: the spring-loaded driving shaft has been pushed forward to engage the slot of the screw head; the lower illustration shows the lever (A) open and the screw head disengaged.

All the usual standard screws such as Sherman's or Lane's patterns can be used with this instrument (up to $\frac{3}{32}$ in. external diameter of thread, with head diameter of $\frac{1}{4}$ in.) as the shaped tubular shaft at the distal end has been made to suit a wide variation of shapes of screw head.

After the screw has been inserted to the required depth and the screwdriver removed from the screw head, it is possible to drive the screw fully home with the same instrument by merely closing the lever (A); the end of the tubular shaft is concave in shape externally to accommodate the top of the screw head.

A special feature is the *adjusting screw* (C) in the base of the handle. This permits the lever (A) to be set to give an absolutely firm fixation of the screw head, and once set it is not necessary to alter it unless a screw with a larger or smaller head is required.

†*Vide The "Lancet," June* 15, 1957, *page* 1225.



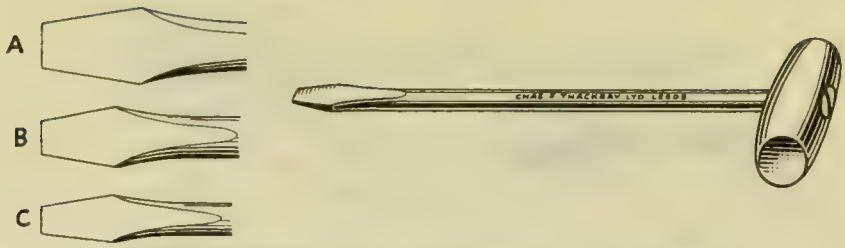
B2703A

B2703A WILLIAMS' AUTOMATIC SCREWDRIVER (Patented), fitted with McKee's winged-handle, stainless steel, anodised aluminium handle .. .. each

The wings on handle allow more torsion to be applied when large screws are to be inserted.

ADDENDA

BONE INSTRUMENTS



AD4975

Cat. No.

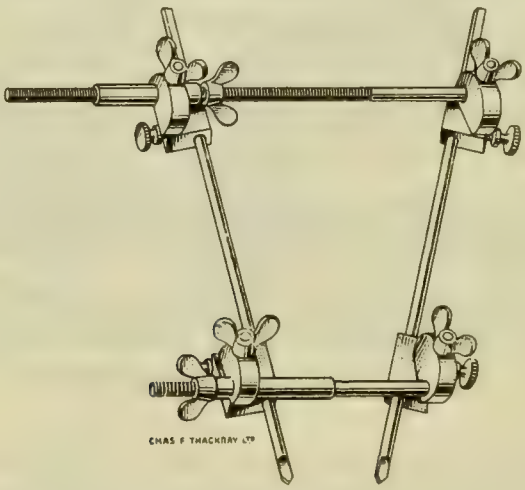
AD4975 SCREWDRIVER, "LEEDS" MODEL (as used at General Infirmary at Leeds), stainless steel shaft on "T"-shaped anodised aluminium handle; three sizes: A, B and C .. .. each



AD4976

AD4976 SCREWDRIVER, "SHEFFIELD" MODEL (as used at Sheffield Royal Infirmary), stainless steel shaft on Williams' anodised aluminium handle each

AD4976A Ditto .. with McKee's winged-handle (*See page* AD911) .. .. each



AD4977

†AD4977 CHARNLEY'S COMPRESSION CLAMP, for arthrodesis of the shoulder, side-pin pattern, with universal swivels, one clamp to pull and the other to push, stainless steel and non-ferrous metal chromium plated, *without* Steinmann's pins .. .. set

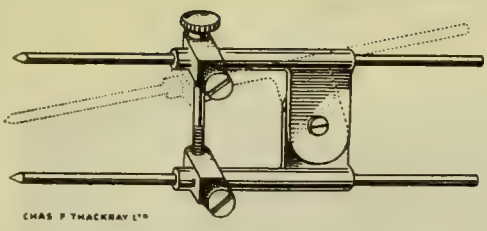
*AD4963 STEINMANN'S PINS for use with above, 10 in. long by 4 mm. diameter, "diamond" drill points, stainless steel .. .. each

**See also page* AD906.

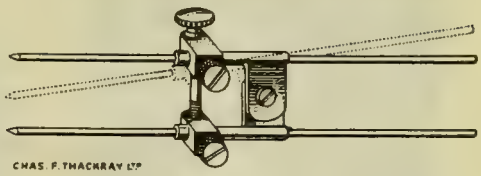
†*For description of use see page* AD913

ADDENDA

BONE INSTRUMENTS



AD4978



AD4979

Cat. No.

†AD4978 CHARNLEY'S COMPRESSION CLAMP, for arthrodesis of the metatarso-phalangeal joint of the great toe, side-pin pattern with hinge, stainless steel, *without* pins .. .. each

†AD4979 Ditto .. smaller size, for arthrodesis of the fingers .. .. each

AD4980 PINS, for use with toe clamp, 4 in. long by 3/32 in. diameter, stainless steel, each

AD4981 Ditto .. for use with finger clamp, 4 in. long by 1/16 in. diameter .. each

†Mr. John Charnley writes:—

"SIDE-PIN COMPRESSION CLAMPS: *The idea underlying the 'side-pin' compression clamps is to avoid transfixion of the limb with four puncture holes in the skin. Side-pin compression requires only two puncture marks in the skin. The clamp produces coaptation under pressure but is not always capable of immobilising a compressed joint. In the case of the shoulder it is imperative to use a shoulder spica to effect immobilisation.*

"*For arthrodesis of the metatarsophalangeal joint of the great toe, the compression pins are 3/32 in. diameter and the excess length is cut off at the end of the operation. For smaller digits the compression pins are 1/16 in. diameter.*

"*The design of clamp for the shoulder incorporates universal swivels so that the position of the shoulder can be adjusted at the last minute before tightening the compression clamp. It will be noted that in the arrangement for the shoulder the clamp distal to the points of the nails is arranged to separate the ends of the nails (the 'pusher' clamp) while the clamp close to the points is the actual source of compression.*"

Manchester, 2nd April, 1959

ADDENDA

BONE INSTRUMENTS



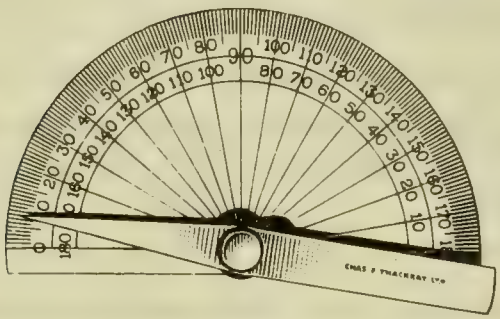
AD4982

Cat. No.

†AD4982 SMERZ'S "ICE-TONG" CALIPER, stainless steel .. .. each

†*Used for applying temporary skeletal traction to the os calcis in cases of fractured shaft of the tibia.*

Vide: "The Treatment of Fractures" (Lorenz Bohler, Fourth English Edition 1935); "The Closed Treatment of Common Fractures", page 211 (E. and S. Livingstone Ltd., 1957) by John Charnley.



AD4983

AD4983 GONIOMETER, for measuring angles of finger joints; plastic scale, chromium plated metal pointer .. .. each



AD4984

AD4984 "TUNBRIDGE WELLS" PATTERN WALKING ROCKER, for plaster-of-paris cast; solid wood with rubber sole; large, platform size 6½ in. by 2½ in., dozen

AD4985 Ditto .. medium, platform size 5½ in. by 2⅛ in. .. .. dozen

AD4986 Ditto .. small, platform size 4 in. by 1¾ in. .. .. .. dozen

ADDENDA

BONE INSTRUMENTS

MacLellan-WRIGHT WALKING-PLASTER APPLIANCE
Patent No. 673,716.





Female patient weighing 15 stones. Short below-knee plaster for Potts' fracture.

A new Walking Aid for all walking-plaster cases

PERFECT BALANCE AND GAIT
Smooth heel-and-toe movement. No lurching or bobbing. Patients with bilateral plasters can walk with ease.

ADAPTABILITY
Suitable for short or full-length plasters and for patients of all ages.

ECONOMY
Saves plaster-of-paris bandages. Eliminates side-irons and wooden rockers. The very hard-wearing sole enables the whole appliance to be used several times over for successive patients.

CLEANLINESS
Complete protection of the plastered foot. No soiling of bed linen.

This appliance is designed to be worn as a shoe over the plaster cast on the foot. The sole is provided with non-skid rubber treads with correct curvature to give a smooth heel-and-toe movement. The upper, of strong rubberised canvas with metal eyelets, forms a waterproof over-shoe, which is extremely hard-wearing and gives complete protection to the plaster cast.

Available in the following sizes:

6 in. and 7 in.—suitable for Children.

8 in., 9 in. and 10 in.—suitable for Adults.

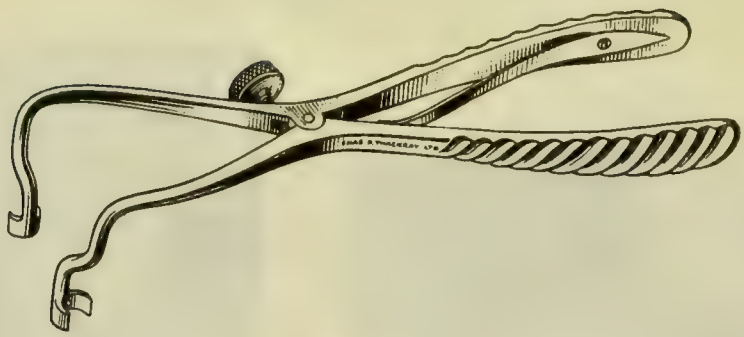
Sizes refer to the length of the sole.

For a full technical appreciation, see The "Lancet", Nov. 11, 1950 (page 519).

Cat. No.		
AD4666	MacLellan-WRIGHT WALKING PLASTER APPLIANCE, sizes 6 in. and 7 in.	each
AD4667	Ditto .. sizes 8 in. and 9 in.	each
AD4667A	Ditto .. size 10 in.	each
AD4667B	Ditto .. size 11 in.	each

ADDENDA

VERTEBRAE INSTRUMENTS



AD4987

Cat. No.

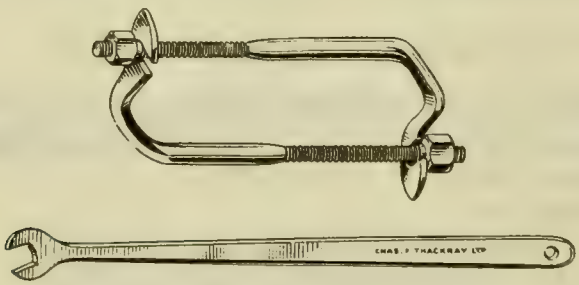
AD4987 NEWMAN-TREVOR JONES' VERTEBRAL SEPARATOR, for spinous process of lumbar spine, with screw adjustment, stainless steel .. each



AD4988–9

AD4988 SYMPATHECTOMY SCISSORS, curved-on-flat (A) with blunt points, 11 in., stainless steel .. .. each

AD4989 Ditto .. straight (B) .. .. each



AD4990–1

AD4990 ZADIK'S CLAMP for lumbar vertebræ, *stainless steel .. .. each

AD4991 SPANNER for use with above, stainless steel .. .. .. each

**Made of Austenitic stainless steel, British Standard Specification* EN58J.

Vide: "*Fracture-dislocation of the Thoraco-lumbar Spine*" *by F. R. Zadik.* (*The Journal of Bone and Joint Surgery, Vol.* 41*B, No.* 4, *November,* 1959, *pages* 772–3)

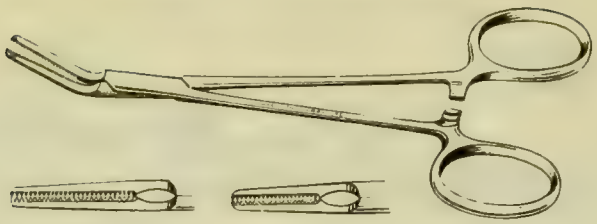
Pages 917 to 921

PLASTIC SURGERY
AND
DENTAL INSTRUMENTS

ARE NOW ILLUSTRATED IN A
NEW SECTION AT THE END
OF THE CATALOGUE AFTER
THE GENERAL INDEX

ADDENDA

OPHTHALMIC INSTRUMENTS

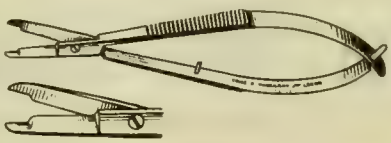


AD 6043 AD 6044

Cat. No.
AD 6043 NUTT'S MUSCLE CLAMP, for use in Recession of the Inferior Oblique, jaws angled-on-flat, with $\frac{11}{16}$" (17.4 mm) serrations, box-joint, $4\frac{7}{8}$" (123.8 mm) stainless steel

AD 6044 Ditto., jaws with $\frac{1}{2}$" (12.7 mm) serrations, box-joint, $4\frac{3}{4}$" (120.6 mm) stainless steel

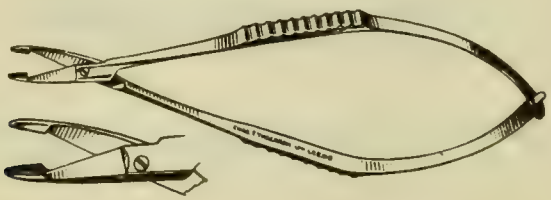
Reference : Ffooks O.O. (1962) Br. Orth. Jnl. Vol. 19, page 90.



AD5009

*AD5009 TOWNSEND'S modified SINCLAIRS' CORNEAL SCISSORS, $4\frac{1}{2}$ in., stainless steel .. .. each

Particularly designed for enlarging limbal incisions in cataract surgery—especially for use in the keratome and scissors technique.

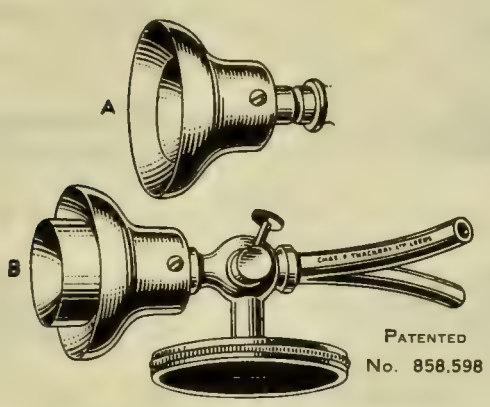


AD5010

*AD5010 TOWNSEND'S modified FOSTER'S combined SCISSORS and NEEDLE HOLDER, 6 in., stainless steel .. .. each

Useful in squint operations or any plastic procedure involving the application of several sutures and tying and cutting the knots.

**Vide: British Journal of Ophthalmology, (1959), 43, page 61.*



AD5011

Cat. No.

†AD5011 ST. GEORGE'S HOSPITAL (LEATHAM'S) IMPROVED STETHOSCOPE, consisting of: combined "two-part" bell chestpiece with diaphragm and change-over lever, rubber tubing and single-folding headframe, internal bore $\frac{1}{8}$ in. diameter throughout; all metal parts (except "two-part" bell) chromium plated .. complete

†*This instrument has been developed from a prototype devised and made by Mr. A. M. Stewart in the workshop of St. George's Hospital, London. Its special features are summarised below:*

TWO-PART BELL. The outer rim of a large bell (A) has been made to slide up, to leave the smaller inner bell (B) to make contact with the skin. As this sliding movement is controlled by a simple spring-loaded friction device, the change from the larger to the smaller of the two bell chestpieces (and vice versa) is instantaneous; the friction device also prevents accidental movement backward and forward.

In the upper illustration (A), the outer rim is shown pushed forward to provide a large bell of $1\frac{1}{2}$ inches diameter; the lower illustration shows the use of the smaller inner bell.

The two bells are highly polished light aluminium alloy.

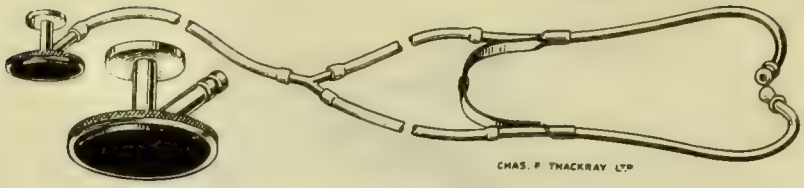
DIAPHRAGM. The slender model devised by Professor Mushin is now fitted (*vide* page 924).

HEADFRAME. This is a single-folding type similar in design to Cat. No. C3543 (page C669) but specially designed with its lower ends angled forwards so that short lengths of rubber tubing (10 inches) can be used.
In accordance with the recommendations of Sprague and Rappaport (*American Heart Journal*, 1951, **42**, 605) that the volume of air should be kept to a minimum, the bore throughout the system has been arranged at one-eighth of an inch.

For a full description by Dr. Aubrey Leatham, F.R.C.P., refer to The "Lancet", March 1st, 1958, page 463.

ADDENDA

CLINICAL DIAGNOSIS INSTRUMENTS



AD5012

Cat. No.

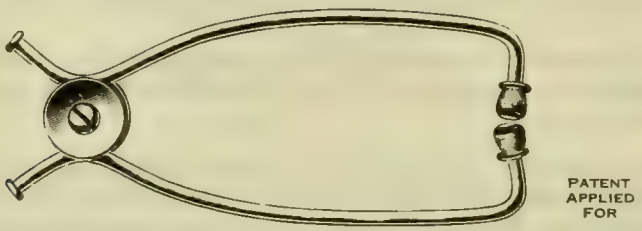
†AD5012 MUSHIN'S STETHOSCOPE, consisting of: improved diaphragm chestpiece, with thumb-plate, specially-designed metal "Y" connection, rubber tubing and single-folding headframe (C3543); all metal parts chromium plated, complete

AD5013 Ditto .. with non-folding headframe (C3542) .. .. .. complete

AD5014 Ditto .. with double-folding headframe (C3544) .. .. .. complete

†*Professor W. W. Mushin of Cardiff describes this Improved Stethoscope Chestpiece in the "British Medical Journal" of February 22nd, 1958, page 455.*

The diaphragm is of slender design and he states that the clarity and loudness of the sounds transmitted are striking. A convenient thumb-plate is fitted at the back of the diaphragm.

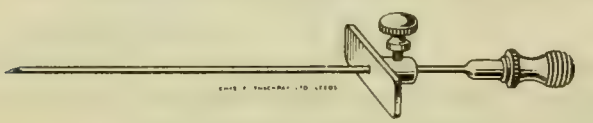


AD4663

AD4663 HOLMES' STETHOSCOPE HEADFRAME, chromium plated, with white plastic eartips .. .. each

This headframe has a circular joint fitted with a stainless steel coiled spring which maintains a firm but comfortable pressure.

SURGICAL SUNDRIES



AD5015-6

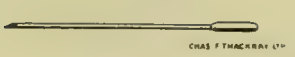
*AD5015 BILLIMORIA and DUNLOP'S NEEDLE for intramuscular administration of fluids, with adjustable guard, Record fitting, stainless steel, size 17 B.W.G. by 4 in. long.. .. .. each

*AD5016 Ditto .. 17 B.W.G. by 2½ in. long .. .. each

**Luer fitting available upon request.*

ADDENDA

SURGICAL SUNDRIES



AD5017



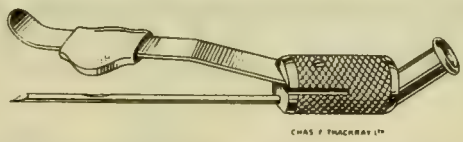
AD5018

Cat. No.

†AD5017 "G.O.S." PATTERN SCALP-VEIN NEEDLE, with tubing mount, suitable for Polythene Tubing size 2 (bore 1·0 mm., wall 0·25 mm.); stainless steel, size 21 B.W.G. by 1⅛ in. long, in packets of six .. .. per pkt.

†*As used at The Hospital for Sick Children, Great Ormond Street, London; also known as "H.S.C." pattern.*

AD5018 KEMPTON'S SCALP-VEIN NEEDLE, with flanged finger-grip and angled mount for Polythene Tubing size 2 (bore 1·0 mm., wall 0·25 mm.); stainless steel needle, size $\frac{11}{16}$ in. long by sizes 20 to 26 B.W.G. inclusive .. .. each

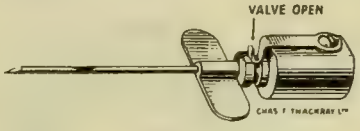


AD5019–20

*‡AD5019 MITCHELL'S SELF-SEALING INTRAVENOUS NEEDLE, Record fitting, stainless steel, size 18 B.W.G. by 1½ in. long .. .. .. each

*†AD5020 Ditto .. 20 B.W.G. by 1½ in. long .. .. each

‡*Vide: "Anæsthesia", October 1952, pages 258–9.*



AD5021

*†AD5021 SCANLON'S "SLEEVE-VALVE" INTRAVENOUS NEEDLE, Record fitting, stainless steel, size: 18 B.W.G. by 1 $\frac{1}{16}$ in. long .. .. .. each

†*This needle has an inner "sleeve" and an outer needle (which is closed at the end), both having slits which register with each other. A simple turn of the mount enables the needle to be kept open or closed during anæsthesia.*

Vide: "A Sleeve-Valve Needle for maintaining an open vein during anæsthesia", by Dr. J. A. Scanlon, B.M.J., May 5th, 1956, page 1041.



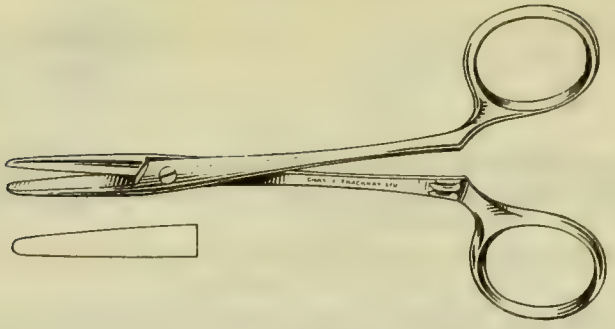
AD5022

AD5022 "WESTMINSTER" INTRAVENOUS "SHOEHORN" RETRACTOR, stainless steel .. .. each

**Luer fitting available upon request.*

ADDENDA

SURGICAL SUNDRIES



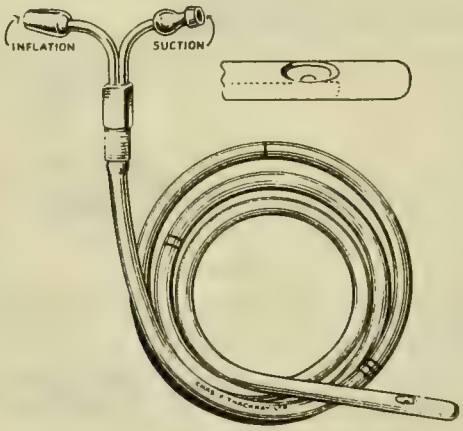
AD5023

Cat. No.

AD5023 SULLY HOSPITAL PATTERN CLAMPING FORCEPS, for rubber tubing, screw-joint, 5 in., stainless steel .. .. each

AD5024 Ditto .. 7 in. .. .. each

Plain non-serrated jaws minimise damage to rubber tubing.

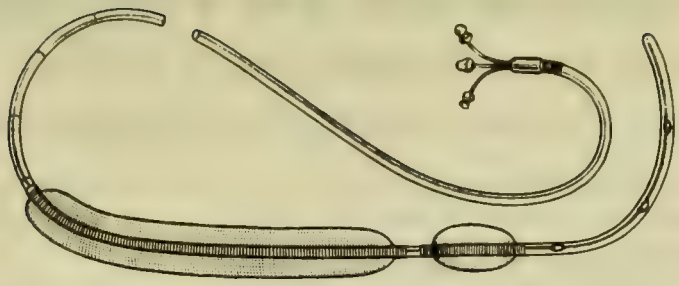


AD5025

AD5025 CLELAND'S GASTRIC ASPIRATION TUBE, rubber, with double lumen; size 10 English Catheter Gauge by 30 in. long, complete with metal mounts, each

Designed to minimise blockage by mucosa, blood-clot, etc., during continuous gastric aspiration. Mr. Gavin Cleland, M.B.E., F.R.C.S., recommends the use of a slow-running and small-capacity pump such as the "Minvac" (Thackray)—for details, see Page E830.

Vide: "*The Lancet*", *October 29th*, 1955, *pages* 908–9.



AD5026–8

Cat. No.

AD5026 SENGSTAKEN'S OESOPHAGEAL COMPRESSION TUBE, for the emergency control of hæmorrhage from œsophageal varices, rubber, X-ray opaque with triple lumen; size 12 English Catheter Gauge by 50 in. long for adults each

AD5027 Ditto .. size 10 for children 8–12 years .. .. .. each

AD5028 Ditto .. size 8 for children under 8 years .. .. .. each



AD5029–30



AD5031–2

AD5029 LIGATURE REELS, clear glass, with hollow axle, plain flanges; six sizes:

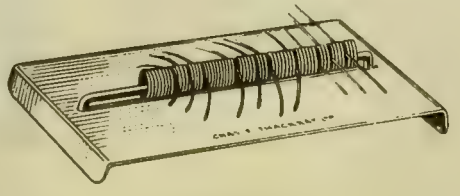
Length	$\frac{3}{4}$ in.	1 in.	$1\frac{1}{2}$ in.	2 in.	$2\frac{1}{2}$ in.	$2\frac{1}{2}$ in.
Flange diameter ..	$\frac{1}{2}$ in.	$\frac{3}{4}$ in.	$\frac{3}{4}$ in.	1 in.	1 in.	2 in.

per dozen

AD5030 Ditto .. coloured, in Amber, Blue, Green, Red, Yellow, size $1\frac{1}{2}$ in. by $\frac{3}{4}$ in. per dozen

AD5031 LIGATURE WINDER, "Maltese Cross", clear glass, size $1\frac{1}{2}$ in. by $1\frac{1}{2}$ in., per dozen

AD5032 Ditto .. coloured, in Amber, Blue, Green, Red, Yellow .. per dozen



AD5033

AD5033 NEEDLE TRAY, with coil spring, stainless steel, size 4 in. by 2 in. .. each

Davis & Geck SUTURES

REGD.

SURGILOPE SP† AND SURGILAR† CATGUT SUTURES

(Surgilope SP denotes double envelope pack described on page 769; Surgilar denotes single enveloped sutures in jars)

Pack Style Code No.					
	SURGILOPE SP	SURGILAR (Jar Pack)			
Product No.	Box of 12	12 Envelopes	36 Envelopes	Catgut & Length	BP Gauge
10005	—23	—24	—	Plain 60"	5–0
10005	—33	—34	—32	,, ,,	4–0
10005	—43	—44	—42	,, ,,	3–0
10005	—53	—54	—52	,, ,,	2–0
10005	—63	—64	—62	,, ,,	0
10005	—73	—74	—72	,, ,,	1
10005	—83	—84	—82	,, ,,	2
10005	—93	—94	—92	,, ,,	3
10506	—23	—24	—	Medium Chromic 60"	5–0
10506	—33	—34	—32	,, ,,	4–0
10506	—43	—44	—42	,, ,,	3–0
10506	—53	—54	—52	,, ,,	2–0
10506	—63	—64	—62	,, ,,	0
10506	—73	—74	—72	,, ,,	1
10506	—83	—84	—82	,, ,,	2
10506	—93	—94	—92	,, ,,	3

ANACAP† BLACK BRAIDED SILK BPC.

25 yd. reel Product No.	100 yd. reel Product No.	BPC Gauge
11001–10	11003–10	6–0
11001–20	11003–20	5–0
11001–30	11003–30	4–0
11001–40	11003–40	3–0
11001–50	11003–50	2–0
11001–60	11003–60	0
11001–70	11003–70	1
11001–80	11003–80	2

†Registered Trademark.



Black braided silk, non-sterile, on reels of 25 yds. or 100 yds., individually packed in clear plastic boxes.

ATRAUMATIC† STERILE CATGUT SUTURES BP IN SURGILOPE SP† OR SURGILAR PACK

Product No.	SURGILOPE SP Box of 12	SURGILAR Jar of 12	Catgut and Length	BP Gauge	Needle Type and Size
10043	−43	−44	Plain 30″	3–0	16 mm half circle cutting
10064	−33	−34	Plain 30″	4–0	16 mm. curved cutting
10064	−43	−44	Plain 30″	3–0	16 mm. curved cutting
10066	−43	−44	Plain 30″	3–0	26 mm. curved cutting
10066	−53	−54	Plain 30″	2–0	26 mm. curved cutting
10076	−43	−44	Plain 30″	3–0	25 mm. half circle round bodied
10076	−53	−54	Plain 30″	2–0	25 mm. half circle round bodied
10078	−33	−34	Plain 30″	4–0	20 mm. half circle round bodied
10078	−43	−44	Plain 30″	3–0	20 mm. half circle round bodied
10087	−63	−64	Plain 30″	0	40 mm. half circle round bodied
10089	−43	−44	Plain 30″	3–0	30 mm. half circle round bodied
10089	−53	−54	Plain 30″	2–0	30 mm. half circle round bodied
10118	−53	−54	Plain 30″	2–0	45 mm. curved round bodied
10118	−63	−64	Plain 30″	0	45 mm. curved round bodied
10119	−53	−54	Plain 30″	2–0	45 mm. straight round bodied
10119	−63	−64	Plain 30″	0	45 mm. straight round bodied
10552	−53	−54	Medium Chromic 30″	2–0	60 mm. five eighths circle round bodied
10556	−53	−54	Medium Chromic 30″	2–0	37 mm. half circle cutting
10556	−63	−64	Medium Chromic 30″	0	37 mm. half circle cutting
10556	−73	−74	Medium Chromic 30″	1	37 mm. half circle cutting
10582	−33	—	Medium Chromic 30″	4–0	20 mm. half circle round bodied
10582	−43	—	Medium Chromic 30″	3–0	20 mm. half circle round bodied
10583	−43	−44	Medium Chromic 30″	3–0	25 mm. half circle round bodied
10583	−53	−54	Medium Chromic 30″	2–0	25 mm. half circle round bodied
10583	−63	−64	Medium Chromic 30″	0	25 mm. half circle round bodied
10583	−73	−74	Medium Chromic 30″	1	25 mm. half circle round bodied
10592	−53	−54	Medium Chromic 30″	2–0	40 mm. half circle round bodied
10592	−63	−64	Medium Chromic 30″	0	40 mm. half circle round bodied
10594	−43	−44	Medium Chromic 30″	3–0	40 mm. half circle round bodied stout
10594	−53	−54	Medium Chromic 30″	2–0	40 mm. half circle round bodied stout
10594	−63	−64	Medium Chromic 30″	0	40 mm. half circle round bodied stout

†Registered Trademark

ADDENDA

SURGICAL SUNDRIES

ATRAUMATIC† STERILE CATGUT SUTURES BP IN SURGILOPE SP† OR SURGILAR PACK *continued*

Product No.	SURGILOPE SP Box of 12	SURGILAR Jar of 12	Catgut and Length	BP Gauge	Needle Type and Size
10594	—73	—74	Medium Chromic 30″	1	40 mm. half circle round bodied stout
10595	—53	—54	Medium Chromic 30″	2–0	30 mm. half circle round bodied
10595	—63	—64	Medium Chromic 30″	0	30 mm. half circle round bodied
10598	—53	—54	Medium Chromic 30″	2–0	45 mm. half circle round bodied
10598	—63	—64	Medium Chromic 30″	0	45 mm. half circle round bodied
10599	—53	—54	Medium Chromic 30″	2–0	50 mm. half circle round bodied
10599	—63	—64	Medium Chromic 30″	0	50 mm. half circle round bodied
10599	—73	—74	Medium Chromic 30″	1	50 mm. half circle round bodied
10605	—53	—54	Medium Chromic 30″	2–0	55 mm. curved round bodied
10605	—63	—64	Medium Chromic 30″	0	55 mm. curved round bodied
10605	—73	—74	Medium Chromic 30″	1	55 mm. curved round bodied
10606	—53	—54	Medium Chromic 30″	2–0	32 mm. curved round bodied
10606	—63	—64	Medium Chromic 30″	0	32 mm. curved round bodied
10607	—63	—64	Medium Chromic 30″	0	65 mm. curved round bodied
10607	—73	—74	Medium Chromic 30″	1	65 mm. curved round bodied
10608	—43	—44	Medium Chromic 30″	3–0	45 mm. curved round bodied
10608	—53	—54	Medium Chromic 30″	2–0	45 mm. curved round bodied
10608	—63	—64	Medium Chromic 30″	0	45 mm. curved round bodied
10609	—53	—54	Medium Chromic 30″	2–0	40 mm. curved round bodied
10609	—63	—64	Medium Chromic 30″	0	40 mm. curved round bodied
10617	—53	—54	Medium Chromic 30″	2–0	40 mm. straight round bodied
10617	—63	—64	Medium Chromic 30″	0	40 mm. straight round bodied
10621	—53	—54	Medium Chromic 30″	2–0	45 mm. straight round bodied
10621	—63	—64	Medium Chromic 30″	0	45 mm. straight round bodied
10628	—43	—44	Medium Chromic 30″	3–0	50 mm. straight round bodied
10628	—53	—54	Medium Chromic 30″	2–0	50 mm. straight round bodied
10628	—63	—64	Medium Chromic 30″	0	50 mm. straight round bodied
10699	—43	—	Medium Chromic 30″	3–0	60 mm. Mayo Robson half circle round bodied
10699	—53	—54	Medium Chromic 30″	2–0	60 mm. Mayo Robson half circle round bodied
10699	—63	—64	Medium Chromic 30″	0	60 mm. Mayo Robson half circle round bodied

18661–02 SURGILAR STORAGE FLUID, 1 pt. cans.

†Registered Trademark

ATRAUMATIC† STERILE BLACK BRAIDED SILK SUTURES BPC. IN CARTONS OF 12 SUTURES EACH IN SURGILOPE SP† PACK

Product No.	BPC Gauge	Length	Needle Type and Size	Special Features
11063–03	7–0	18″	12 mm. curved cutting	
11063–13	6–0	18″	12 mm. curved cutting	
11063–23	5–0	18″	12 mm. curved cutting	
11063–33	4–0	18″	12 mm. curved cutting	
11074–33	4–0	18″	19 mm. curved reverse cutting	
11076–43	3–0	18″	24 mm. curved reverse cutting	
11083–13	6–0	18″	16 mm. curved cutting	
11083–23	5–0	18″	16 mm. curved cutting	
11083–33	4–0	18″	16 mm. curved cutting	
11083–43	3–0	18″	16 mm. curved cutting	
11083–53	2–0	18″	16 mm. curved cutting	
11123–33	4–0	30″	25 mm. half circle round bodied	
11123–43	3–0	30″	25 mm. half circle round bodied	
11123–53	2–0	30″	25 mm. half circle round bodied	
11123–63	0	30″	25 mm. half circle round bodied	
11153–03	7–0	30″	12 mm. curved round bodied.	
11153–13	6–0	30″	12 mm. curved round bodied	
11153–23	5–0	30″	12 mm. curved round bodied	
11239–13	6–0	18″	12 mm. curved cutting	Double Armed
11239–23	5–0	18″	12 mm. curved cutting	Double Armed
11239–33	4–0	18″	12 mm. curved cutting	Double Armed
11243–23	5–0	30″	22 mm. curved tapered arterial	Double Armed
11243–33	4–0	30″	22 mm. curved tapered arterial	Double Armed

†Registered Trademark.

ADDENDA

SURGICAL SUNDRIES

Davis & Geck DERMALENE*

REGD.

linear polyethylene monofilament sutures.

Extensive trials have proved linear polyethylene to possess distinct advantages over similar types of material.

DERMALENE linear polyethylene monofilament sutures offer the following specific advantages:

1 **Exceptionally inert** – in use, excellent tissue tolerance to linear polyethylene has been demonstrated. Foreign body reactions, in comparison to other similar non-absorbable sutures, are virtually obviated.

2 **Low elasticity,** free from stiffness. It will not readily kink or coil, moulds well to tissues, knots firmly with a double knot, and has less tendency to slip than other similar monofilament sutures.

3 **Surgical uses** – invaluable in plastic and vascular surgery, or any procedures where an extremely inert suture is required.

Packed in cartons containing 12 sutures each in SURGILOPE SP† double plastic envelope, sterilized ready for immediate use.

*Trademark †Registered Trademark

Product No.	Gauge	Length	Needle Type and Size	Special Features
12701-43	3-0	40″	Non-needled.	
12712-33	4-0	30″	25 mm. half circle round bodied	
12712-43	3-0		,, ,, ,, ,, ,,	
12731-23	5-0	18″	19 mm. curved reverse cutting	
12731-33	4-0		,, ,, ,, ,,	
12731-43	3-0		,, ,, ,, ,,	
12732-23	5-0	18″	12 mm. curved reverse cutting	
12732-33	4-0		,, ,, ,, ,,	
12733-33	4-0	18″	24 mm. curved reverse cutting	
12733-44	3-0		,, ,, ,, ,,	
12736-43	3-0	18″	30 mm. curved reverse cutting	
12751-23	5-0	30″	18 mm. half circle round bodied	Double Armed
12751-33	4-0			
12752-23	5-0	30″	12 mm. curved round bodied	Double Armed
12755-33	4-0	30″	25 mm. half circle round bodied	Double Armed
12755-43	3-0			

Cat. No.

AD5042 "DIASTOL" ABSORBABLE SURGICAL GLOVE LUBRICANT, Talc Free; packed in Polythene-lined drums:

Medium Light Grade .. per 10 lb. drum
Light Grade .. per 8 lb. drum

"Diastol" possesses the following advantages:

1. DIASTOL is a safe and efficient lubricant for use with surgical gloves, drains, catheters, etc., which will NOT reduce the life of these articles.
2. It has been proved by animal experiments to be completely absorbed by the tissues without the formation of adhesions.
3. Has been continuously in use since 1951 under actual operating conditions and found to be satisfactory.
4. It is an elegant product, completely non-toxic and pleasant to use.
5. It prevents chapping and does not cause maceration of the hands.
6. It is unaffected by autoclaving.

Descriptive booklet available on request.

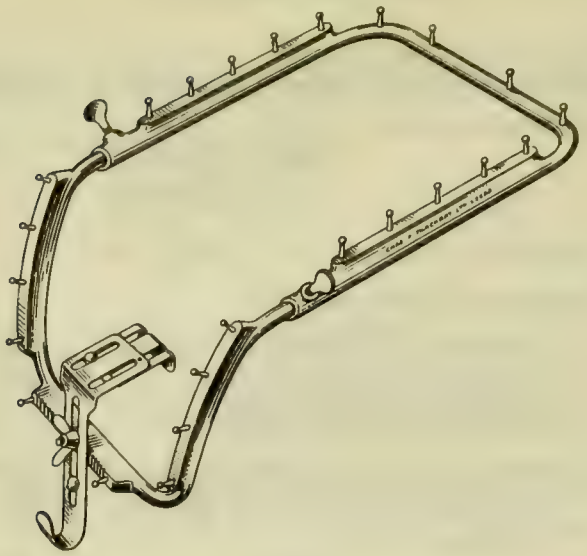
AD5043 "SURGEL" COMPRESSED SURGICAL SWAB; sheets size approximately 14 in. by 12 in. by $\frac{3}{8}$ in. (when wet) .. .. per sheet
per box of 25 sheets

"SURGEL" is a new highly absorbent non-irritant material made in Sweden and has been specially developed for surgery.
It is a white *highly purified* cellulose product of fine spongy structure and possesses great absorptive capacity. Easily cut to the size required, it is sterilizable by autoclaving or by boiling.

Descriptive leaflet available on request.

ADDENDA

SUPPLEMENTARY ITEMS



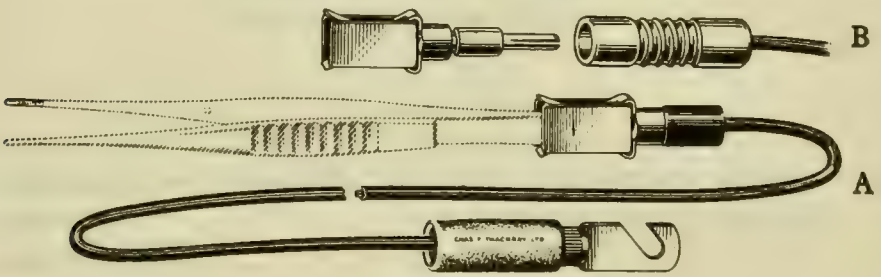
Cat. No. AD5047

AD5047 HAMILTON STEWART'S RETRACTOR for the exposure of the urethra in operations for the cure of severe stricture of the posterior urethra, consisting of frame and adjustable retractor, stainless steel .. .. .. complete

"The patient is placed in the lithotomy position—thighs abducted and flexed 45°. The large part of the retractor frame lies on the abdominal wall, and the smaller part encloses the perineum. Sutures are passed through the cut surfaces of the corpus spongiosum and artery forceps are applied to the ends. The sutures are not tied and are placed over the prongs in the retractor or in the grooves. The artery forceps are allowed to hang down. In this way the urethra is adequately exposed and the tension on the sutures caused by the weight of the forceps controls the bleeding from the corpus spongiosum. These stay sutures are removed in the later stages of the operation.

The retractor is of great value in all reconstruction operations on the urethra and particularly in the operation of urethroplasty for the treatment of urethral strictures as described by the author."—H. HAMILTON STEWART, M.D., F.R.C.S., BRADFORD.

ELECTRO-SURGICAL APPARATUS



AD5046A–B

†AD5046A GAZET'S UNIVERSAL DIATHERMY ADAPTOR, for dissecting forceps, complete with boilable cable and hook connection for diathermy machine, *without dissecting forceps* .. .. each

†AD5046B Ditto .. adaptor only, for connection to existing *standard diathermy cable each

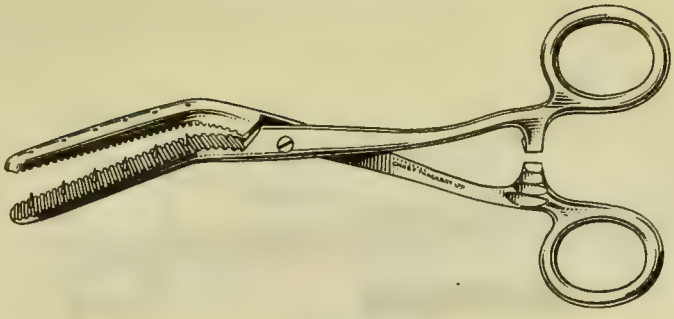
†*Box-end of adaptor fits over head of most standard dissecting forceps, being held firmly by three strong springs.*

**Diathermy cables: see pages* G61, U230 *and* E820 *of General Catalogue.*

Vide: The "Lancet," March 7th, 1959, page 504.

ADDENDA

SUPPLEMENTARY ITEMS

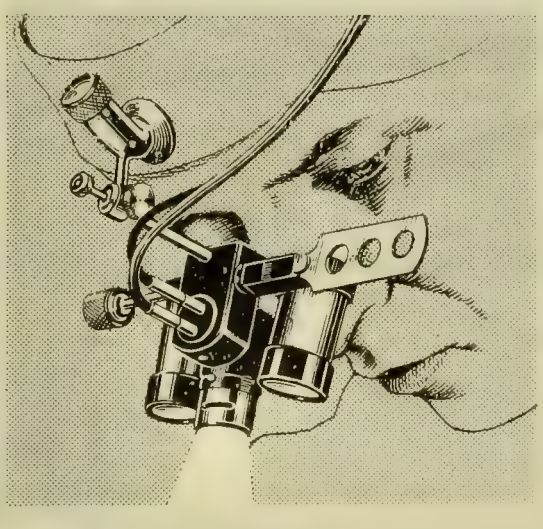


AD5049

Cat. No.

AD5049 HICKEY'S COLON HOLDING FORCEPS, for terminal colostomy, angled-on-flat, screw joint, 7 in. stainless steel .. .. each

These forceps have been devised to facilitate passing the cut end of the colon through the abdominal wall. The gut is often oedematous and hypertrophied and may be loaded with faeces. The absolute and watertight grip is ensured by the spikes and serrations, while the angle and blunt end make manipulation through the abdominal wall easy, and it can be held outside by a similar forceps until the operator wishes to trim the gut and fashion the colostomy.—B. BRENDAN HICKEY, M.CH., F.R.C.S., SWANSEA.



AD5050

AD5050 KASCHE'S BINOCULAR LOUPE, on adjustable headband, with one spare lamp .. .. set

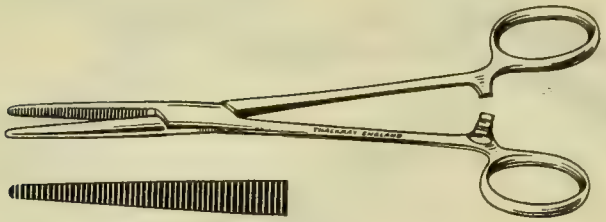
AD5051 Spare Lamps for above, 6 volts .. .. each

The Kasche Binocular Loupe combines a binocular loupe with a powerful headlight, and the former can be swung in and out of the field of vision as desired. The loupe is adjustable for magnifications of 3, 4, 5 and 6×; the working distance being approximately 10 in., when set for 3× magnification. This instrument is admirably suitable for Lempert's fenestration operation, mastoidectomy and the operative treatment of the tympanic membrane and of facial paralysis.

Transformers and battery boxes for use with above, see pages G154 *and* E816–7 *in the General Instrument Catalogue.*

ADDENDA

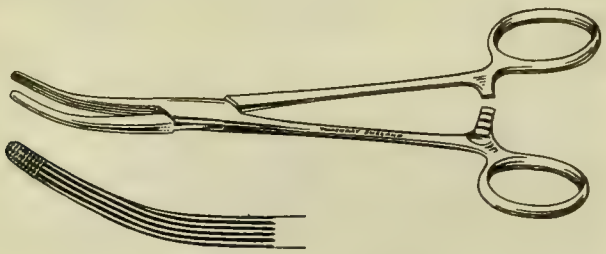
SUPPLEMENTARY ITEMS



AD 6429

AD 6429 ROCHESTER-PEAN'S ARTERY FORCEPS, straight, box joint, 6¼ in., stainless steel.

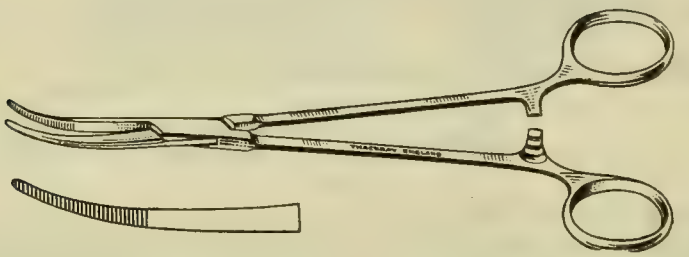
AD 6430 Ditto . . curved.



AD 6432

AD 6431 ROCHESTER-CARMALT'S ARTERY FORCEPS, straight, box joint, 6¼ in., stainless steel.

AD 6432 Ditto . . curved.



AD 6434

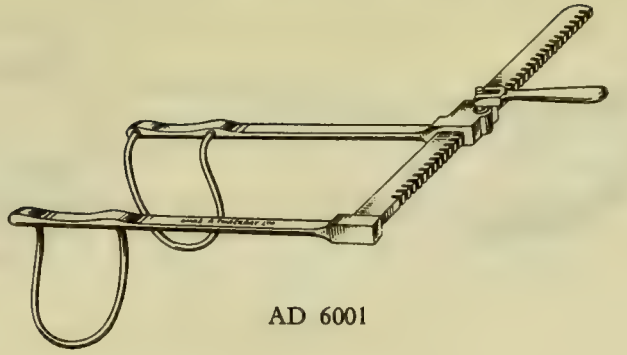
AD 6433 FRAZER'S ARTERY FORCEPS, lightweight, straight, box joint, 7½ in., stainless steel.

AD 6434 Ditto . . curved.

Particularly useful in tonsil and cardiac surgery.

ADDENDA

SUPPLEMENTARY ITEMS



AD 6001

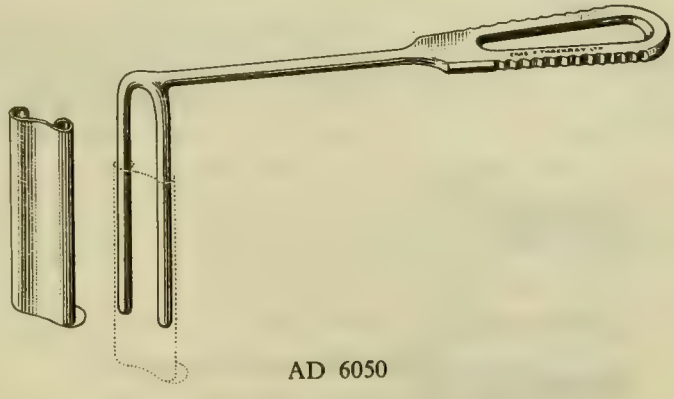
Cat. No.

AD 6001 STEVENS' modified GOSSET'S ABDOMINAL RETRACTOR, self-retaining, lightweight model, with FINOCHIETTO'S lever device, blades $2\frac{1}{8}$" deep (53.97 mm) by $1\frac{3}{4}$" wide (44.45 mm), stainless steel ....

Mr. A. E. Stevens, F.R.C.S., Consultant Surgeon at the Redhill General Hospital, Redhill, Surrey, writes :—

" With present-day relaxant anaesthesia it becomes less necessary to use heavy instruments. The above is made of light section stainless steel, weighing 187 grammes against the normal 307 grammes of the Gosset retractor of similar size."

Vide " The British Medical Journal".
18th November, 1961, Volume II, page 1353.



AD 6050

Cat. No.

AD 6050 LENTIN'S RETRACTOR, small size, with blade $4\frac{1}{8}$" to $6\frac{1}{2}$" (105 to 165 mm) *effective* depth by $1\frac{1}{8}$" (32 mm) wide, stainless steel ....

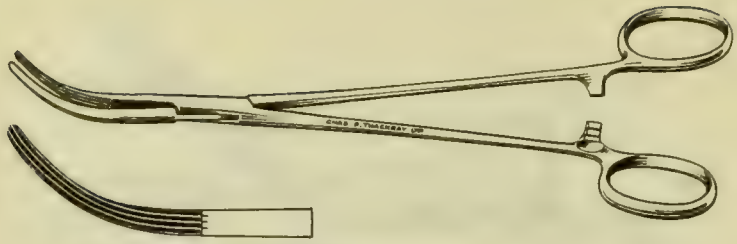
AD 6051 Ditto, medium size, with blade $4\frac{1}{8}$" to $6\frac{1}{2}$" (105 to 165 mm) *effective* depth by $1\frac{11}{16}$" (43 mm) wide, stainless steel ....

AD 6052 Ditto, large size, with blade $5\frac{1}{4}$" to $7\frac{3}{4}$" (133 to 197 mm) *effective* depth by $2\frac{11}{16}$" (68 mm) wide, stainless steel ....

Vide " The British Medical Journal."
5th January, 1963, Volume I, page 40.

ADDENDA

SUPPLEMENTARY ITEMS



AD 6018

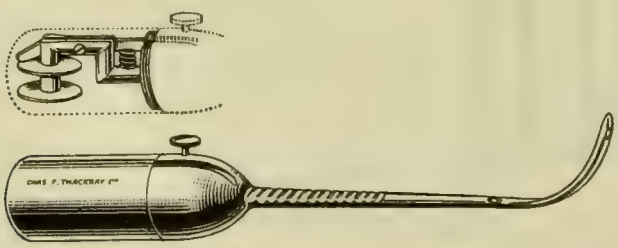
Cat. No.
AD 6018 CORRY'S CHOLECYSTECTOMY FORCEPS, curved-on-flat, box-joint 8" (203 mm.), stainless steel .....

Mr. D. C. Corry, F.R.C.S., Consultant Surgeon, Radcliffe Infirmary, Oxford, writes :—

" These forceps were designed by me for cholecystectomy. They incorporate the curve of Moynihan's cholecystectomy forceps having the advantage that when radiated 30° on the long axis produce the point for easy ligation of vessels. The jaws are longitudinally serrated to enable a positive grip to be obtained with a lightweight instrument, which obviates the broad massive grip of the Moynihan's forceps.

" The box-joint allows ligatures to pass down the forceps without catching, as well as providing a most suitable joint.

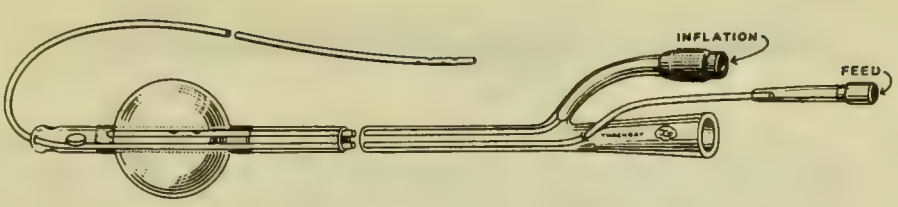
" I find them particularly useful in cholecystectomies for either picking up the cystic artery distal to the first ligature, which is passed by an aneurysm needle and tied in continuity, and for subsequent ties between the gall bladder and liver. The instrument is nicely balanced and has many uses for delicate work deep in the abdomen."



AD 6019

Cat. No.
AD 6019 ANSCOMBE'S modified TIBBS' CONTINUOUS-FEED ANEURYSM NEEDLE, stainless steel, chromium plated handle and spare reel. .....

AD 4616 Spare Reels .....



AD 6049

Cat. No.
AD 6049 KAY'S TEMPORARY FEEDING GASTROSTOMY CATHETER, with 20/30 cc. capacity bag and four eyes, plastic, size : 22 French Catheter Gauge. The feeding tube projects 11" (279.4 mm) beyond the end of the catheter and has four eyes at the tip. Sterile ....

Professor Andrew W. Kay, M.D., Ch.M., F.R.C.S. (Edin. Glas. Eng.) Regius Professor of Surgery, University of Glasgow (formerly Professor of Surgery, University of Sheffield) writes :—

" *Gastric decompression with planned replacement of fluid and electrolyte, although of established value, has several disadvantages when carried out by the conventional methods of intravenous infusion or by the naso-gastric tube. Consequently some surgeons no longer use gastric aspiration after Polya gastrectomy, but consider it advisable after Billroth I gastrectomy and after vagotomy.*

" *During the past five years it has been my practice to use a Foley's catheter for temporary gastrostomy in vagotomy patients with a drainage procedure. The catheter was inserted through a small stab incision in the anterior wall of the stomach, passed through an avascular part of the omentum and withdrawn from the abdominal cavity through a small stab incision in the left epigastrium.*

" *This procedure was satisfactory for gastric decompression, but it did not assist those patients requiring fluid and electrolyte replacement. In an effort to meet this necessity, the above tube was devised, which provided a means of gastric aspiration and also permits duodenal feeding after vagotomy with pyloroplasty, or jejunal feeding after vagotomy with gastrojejunostomy.*

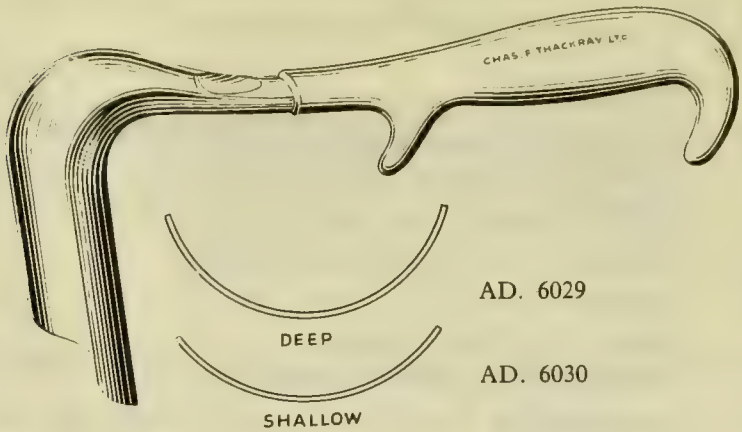
" *The above product has been in use for many months and has been acclaimed by patients, who have been unfortunate enough to experience other forms of post operative management.*"

Vide " *The British Medical Journal.*"
28th March, 1964, Volume I, page 822.

ADDENDA

SUPPLEMENTARY ITEMS

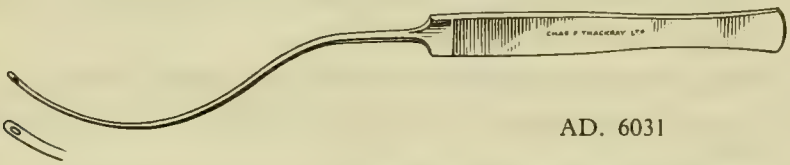
Instruments used by Prof. Lawson, continued from page AD 943



AD. 6029

AD. 6030

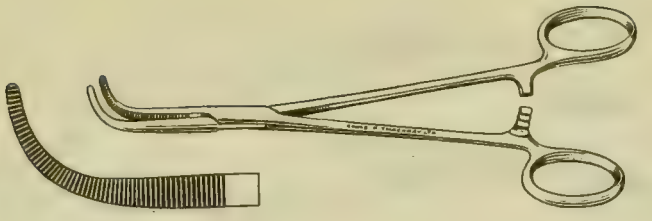
Cat. No.		
1	AD. 6029	Lawson's modified Currie's Vaginal Speculum, single ended, with deep blade, working length 3″ long x 1½″ wide (76.2 mm. x 38.1 mm.), stainless steel on hollow handle, chromium plated.
1	AD. 6030	Ditto .... with shallow blade, working length 3″ long x 1½″ wide (76.2 mm. x 38.1 mm.).



AD. 6031

1	AD. 6031	Lawson's Aneurysm Needle, curved laterally, 9″ (228.6 mm.) stainless steel.
2	U. 1168	Whistle-tip rubber catheters, size 10 E.G.
2	U. 1331	Ureteric Catheters, size 4 F.G.
	S. 4285	Curved cutting needles, size 12, stainless steel.
	S. 4320	Fistula needles, size 4, stainless steel.
	S. 4362	Mayo's Trocar-pointed needles, size 2, stainless steel.
3	F. 6247	Gallipots, 2 oz. stainless steel.
1	F. 6260	Shallow Tray (for Surgeon's knees) stainless steel, 14″ x 11″ x ⅞″ (355.6 mm. x 279.4 mm. x 22.23 mm.).
3	F. 6261	Kidney Dishes, 8″ (203 mm.) stainless steel.
1		Plastic funnel, 2½″ (63.5 mm.) diameter.

AD. 6032 COMPLETE SET OF INSTRUMENTS AS DETAILED ABOVE FOR REPAIR OF VESICO-VAGINAL FISTULA, AS USED AT UNIVERSITY COLLEGE HOSPITAL, IBADAN.



AD 6069

AD 6069 O'SHAUGHNESSY'S ARTERY FORCEPS, short pattern, with fine curved serrated jaws, box joint, 6 in., stainless steel.

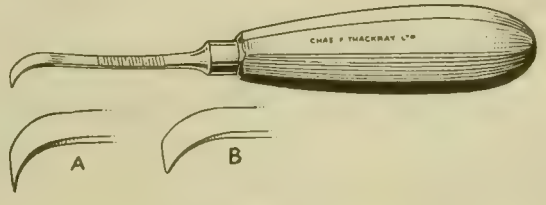


AD 6066

AD 6066 WATSON'S modified McINDOE'S SCISSORS, curved-on-flat, with fine blunt points and flattened blades, 7 in., stainless steel.

AD 6067 Ditto . . 9 in.

AD 6068 Ditto . . straight 9 in.



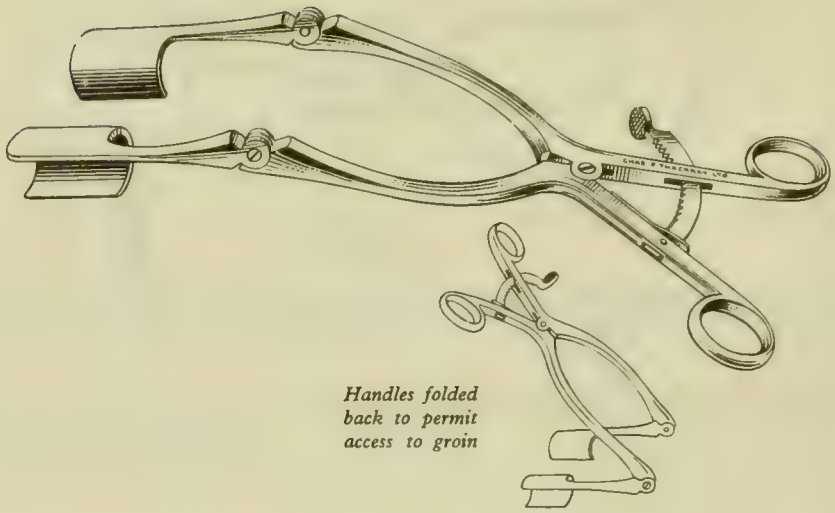
AD 6064–5

D 6064 PRICE THOMAS' RIB RASPATORY, infants' size, with deep curved blade "A", stainless steel, chromium plated handle.

D 6065 Ditto . . with shallow curved blade "B".

ADDENDA

SUPPLEMENTARY ITEMS



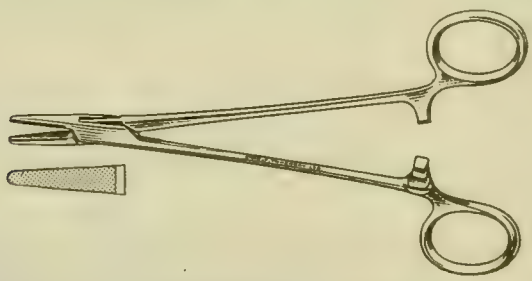
AD 6011

Cat. No.

AD 6011 LAWRANCE'S modified MAYO'S RETRACTOR, for use as a Sternum Spreader, adult size, stainless steel

AD 6012 Ditto., small size

Vide " The British Medical Journal".
30th July, 1960, Volume II, pages 382-383.



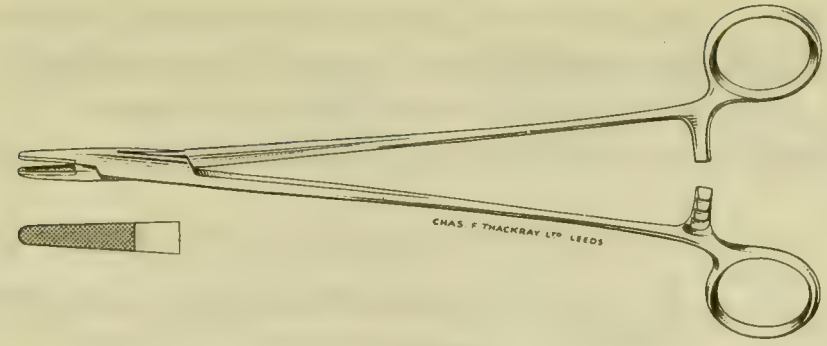
AD 6013

Cat. No.

AD 6013 LAWRANCE'S NEEDLE HOLDER, lightweight, box joint, with fine jaws fitted with tungsten carbide inserts, 6" (152 mm), stainless steel

AD 6013A Ditto . . *without* tungsten carbide inserts.

Vide " The Journal of Thoracic and Cardiovascular Surgery, St. Louis".
September, 1961, Volume XLII, No. 3, page 418.

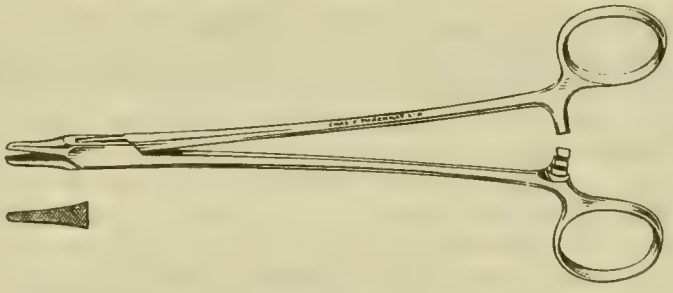


AD 6073

AD 6072 DeBAKEY'S NEEDLE HOLDER, with tungsten carbide facing on jaws, box joint, 7 in., stainless steel.

AD 6073 Ditto . . 9 in.

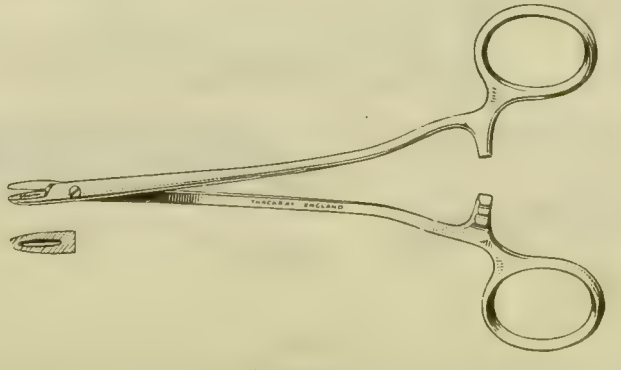
AD 6074 Ditto . . 10 in.



AD 6075

AD 6075 POTTS-MAYO'S NEEDLE HOLDER, with fine serrated jaws, box joint, $7\frac{1}{2}$ in., stainless steel.

AD 6076 Ditto . . with tungsten carbide facings on jaws.

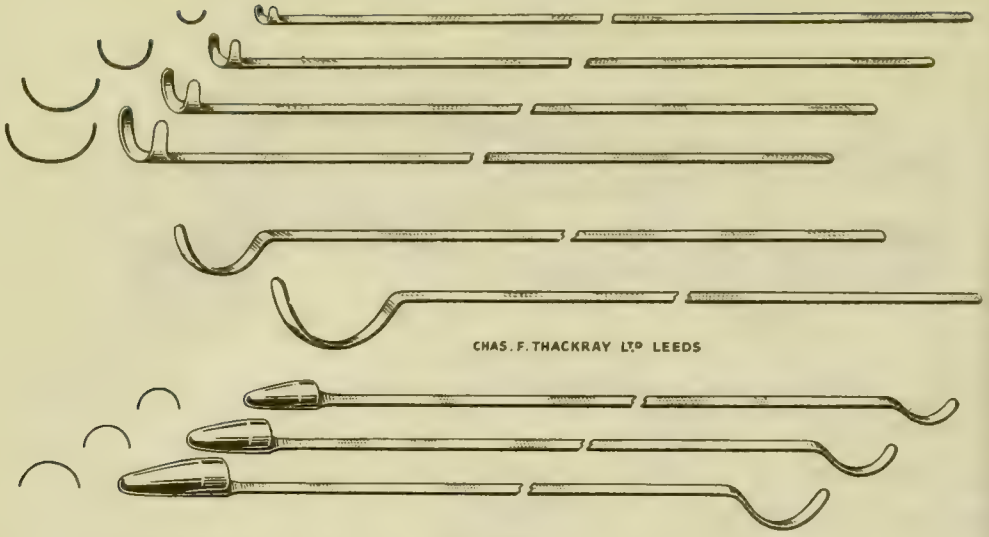


AD 6435

AD 6435 SENNING'S NEEDLE HOLDER, with small serrated jaws, screw joint, $6\frac{3}{4}$ in. stainless steel.

ADDENDA

SUPPLEMENTARY ITEMS



AD 6014

Cat. No.
AD 6014 MARTIN'S ENDARTERECTOMY STRIPPERS, set of 9, consisting of : four Strippers, three Retrograde Knives, two Dissectors: 9″ (228 mm) stainless steel throughout, complete in perforated metal sterilizing case, satin chrome finish .....

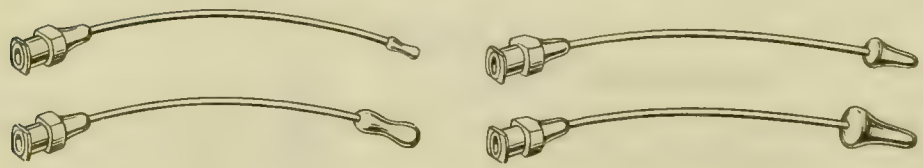
Mr. Peter Martin, M.Chir., F.R.C.S., Consultant Surgeon at the Hammersmith Hospital, London, writes :—

" Most surgeons with interests in arterial work agree that the best operation for atherosclerosis involving short segments of larger vessels is endarterectomy. Sometimes in other sites and in longer segments this operation is also useful.

" The operation is done through a longitudinal incision either end of the area to be operated on. Through the distal incision the hook type instrument is carefully inserted around the obstruction in the artery, which is then lifted upwards. A stripper of suitable size is then passed upwards, rotated through 180 degrees, and then withdrawn. The ' sequestrum ' is then withdrawn.

" To divide the intima without detaching it, and to obtain a bevelled edge of the distal intima ; a conical retrograde knife is passed downwards and the wall of the artery pressed on to the blade with the finger as the knife is withdrawn. This will avoid detachment of the intima and distal flap formation."

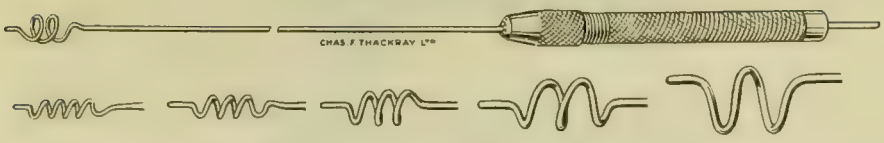
Vide " The British Medical Journal "
20th May, 1961, page 1457.



" A " " B "

AD 6004

Cat. No.
AD 6004 TIBBS' ARTERIAL CANNULAE, set of 4, curved, with slightly waisted olive (" A ") and cone-shaped heads (" B "), Luer-lock fitting mounts ; chromium plated .....



AD 6010

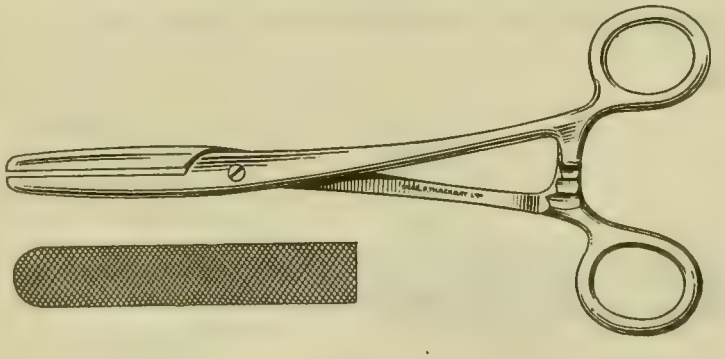
at. No.
D 6010 GUNNING'S ARTERIAL and VENOUS CORKSCREW REAMERS, set consisting of : five graded sizes of reamers, 12½" (317 mm) and one cannulated chuck handle, stainless steel, complete in perforated metal sterilizing case with satin chrome finish .....

Mr. A. J. Gunning, F.R.C.S., Consultant Surgeon at the Radcliffe Infirmary, Oxford, writes :—

" The above have been designed for the removal of systemic, pulmonary artery and venous clots, thrombi and emboli.

" A transverse incision is made in the affected artery, usually below or just at the site of the obstruction. Through this incision an appropriate sized reamer is introduced in a rotary manner up the artery and then gently pulled down ; if there is only a small clot the rest will be forced out by the head of blood pressure in the artery. The reamer is then introduced in the same manner in the lower segment of the artery and any clot present removed in a similar manner.

" In dealing with veins, the process is of course reversed so that the clot is removed from the lower segment first, the vessel clamped, then the proximal segment dealt with as detailed above."

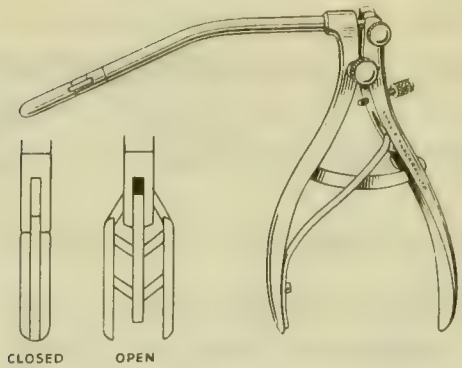


AD 6036

at. No.
D 6036 WADE'S CLAMPING FORCEPS, extra strong, for plastic tubing, screw-joint, 8" (203 mm), stainless steel .....

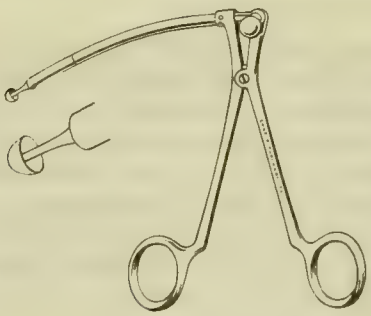
ADDENDA

SUPPLEMENTARY ITEMS



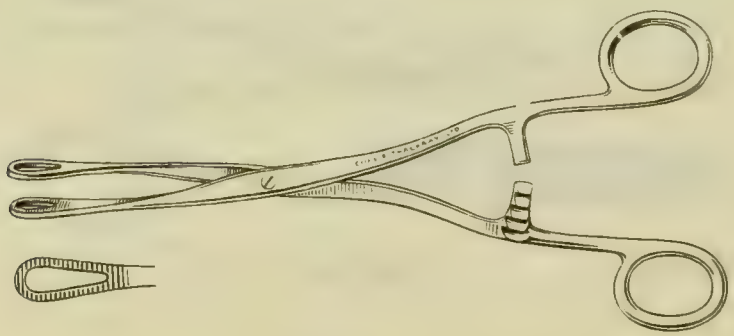
AD 6082

AD 6082 TAYLOR'S MITRAL VALVE DILATOR for infants, stainless steel.



AD 6083

AD 6083 TAYLOR'S MITRAL VALVE PUNCH for infants, stainless steel.



AD 6070

AD 6070 ALLISON'S modified RAMPLEY'S SPONGE HOLDING FORCEPS, with small
for use on children, screw joint, 7 in., stainless steel.

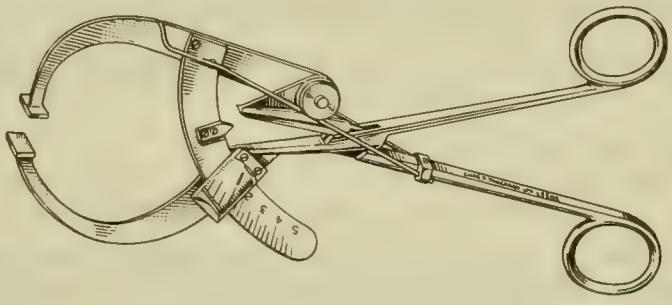


AD 6436–7–8

AD 6436 WATSON'S CORONARY PERFUSION CANNULA, with 3 mm. terminal hole, stainless steel.

AD 6437 Ditto . . with 2.5 mm. terminal hole.

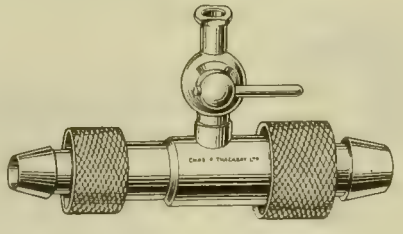
AD 6438 Ditto . . with 2 mm. terminal hole.



AD 6084

AD 6084 VEREL'S SKIN-FOLD THICKNESS FORCEPS, with caliper jaws, graduated scale with perspex magnifier, box joint, 7½ in., stainless steel.

This instrument is used to estimate body fat.
Vide "The Lancet", 29th October, 1960, page 962.

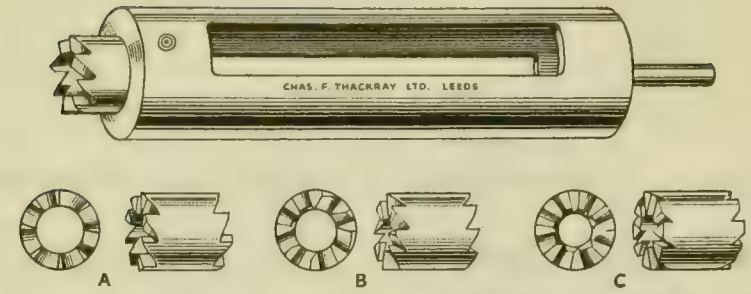


AD 6088

AD 6088 HEART- LUNG MACHINE CONNECTIONS, mirror polished lumen, with locking collars on tubing mounts, stainless steel throughout. The following types are available: Straight, Y-shaped, T-shaped or Straight with Side Tap. All these can be supplied with either a constant or a tapered lumen. The one illustrated above is a straight connection with a tapered lumen and side tap.

ADDENDA

SUPPLEMENTARY ITEMS



AD 6039

Cat. No.

AD 6039 FIBULAR-GRAFT DOWEL CUTTER, with one hollow metal fenestrated cylinder 6″ (152.0 mm) long x 1½″ (38.1 mm) diameter with stem to fit ¼″ (6.35 mm) chuck of power drill, and three double-ended cutter bits, sizes : ½″ (12.7 mm), 7/16″ (11.1 mm), and ⅜″ (9.5 mm) diameter. Stainless steel throughout, complete with Allen Key .....

*AD 6040 Spare Cutter Bits sizes ½″, 7/16″ and ⅜″ .....

AD 6041 Spare Allen Key .....

* Please state size/sizes required.

When a Smith-Petersen Nail is used together with a fibular graft for the treatment of displaced intracapsular fractures of the femur neck, the results show a high rate of union and a low necrosis rate. The above dowel cutter facilitates the shaping of grafts to one of three diameters. The teeth on both faces of each cutter are for shaping the grafts by either pushing them into the cutter or pulling them out from within.

A graft is cut from the lower half of the fibula and the end bevelled with a file. Holding one end with bone forceps the graft is quickly run through the rotating dowel cutter to within one inch of its length. The bone is then withdrawn and inserted through the cutter from within the cylinder and the last inch rounded by pulling the graft outwards from within. In this way an even cylindrical graft is quickly made.

Devised by Mr. James Patrick, F.R.C.S., Surgeon in Charge, Department of Orthopaedic Surgery, Glasgow Royal Infirmary.

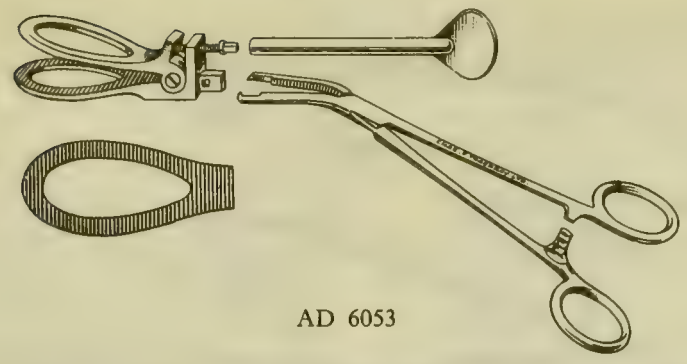


AD 6002

Cat. No.

AD 6002 STACK'S RETRACTOR FOR HAND SURGERY, large size, 5½″ long (139.7 mm) with blades 1″ deep (25.4 mm), stainless steel .....

AD 6003 Ditto ..... small size, 5½″ long (139.7 mm) with blades ½″ deep (12.7 mm).



AD 6053

Cat. No.

AD 6053 ZACHARY-LISTER'S CRUSHING INSTRUMENT for Duhamel's procedure in Hirschprung's disease, consisting of : crushing clamp with loop-shaped jaws, introducing forceps, angled-on-flat, box-joint and box spanner, stainless steel throughout

AD 6054 CRUSHING CLAMP only, stainless steel

AD 6055 INTRODUCING FORCEPS only, stainless steel

AD 6056 BOX SPANNER only, stainless steel

Mr. R. B. Zachary, F.R.C.S., and Mr. James Lister, F.R.C.S.(Edin.), Consultant Surgeons at the Pædiatric Surgical Unit, The Children's Hospital, Western Bank, Sheffield, 10, write :—

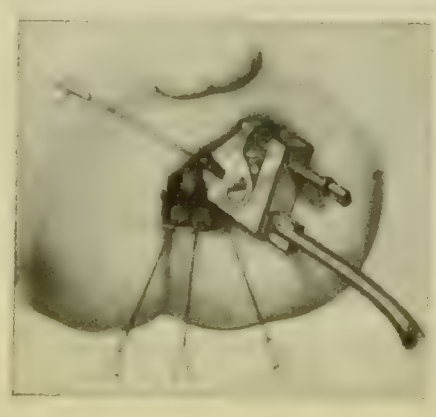
" The Duhamel operation for Hirschprung's disease is well known in this country and on the Continent, and is now becoming popular in the U.S.A.

" This operation is not without its problems, and one source of worry is the clamps which must be applied to the spur formed by the posterior wall of the rectal stump and the anterior wall of the colon brought down behind it. The importance of fully dividing this spur is emphasized because of complications caused by fæcal retention in the rectal stump should a large pouch remain.

" In place of the two Kocher's, or similar type, clamps applied to the spur with their points together and shanks apart to devitalise a triangular area, we have devised a new crushing instrument as shown above.

" The crushing clamp is applied before closure of the abdomen so that its position can be confirmed by palpatation within the abdomen ; the clamp being then secured firmly but not too tightly. The screw pressure is increased daily for the next two or three days. The clamp drops out of the rectum on the fourth or fifth day following the operation.

" As this clamp, after application, is contained in the rectum, it obviates discomfort to the child caused by the projecting and vulnerable shanks and bows of the Kocher's clamps, which if moved during the immediate post-operative period might tear the rectal stump. This risk is not sufficiently avoided by restraint of the child in a mermaid type of bandage.

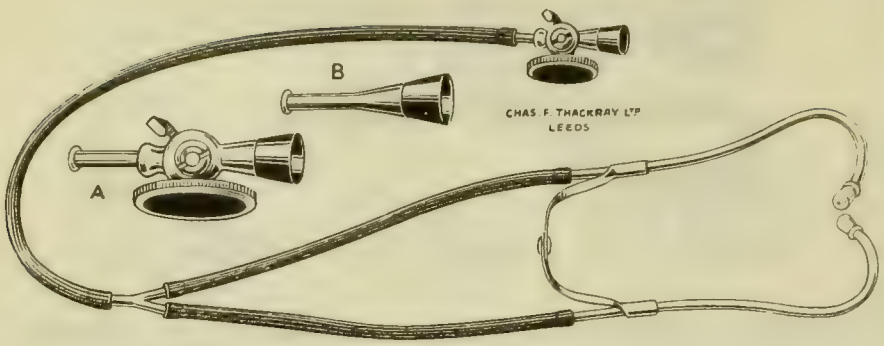


" The new instrument has been used successfully in children between the ages of four months and three and a half years, and we think the size is suitable for most ages of children in whom the Duhamel operation is likely to be performed."

Vide " The Lancet," 29th February, 1964, page 476.

ADDENDA

SUPPLEMENTARY ITEMS



AD 6057

Cat. No.

AD 6057 CORNER'S STETHOSCOPE for Pædiatricians, consisting of :- Headframe with *folding* spring and white plastic Eartips, *miniature* Sprague-Bowles' Chestpiece with single outlet (A), two 10" (254.0 mm) and one 18" (457.0 mm) lengths black Rubber Tubing and metal " Y " connection, all metal parts chromium plated

AD 6058 Ditto, for Nurses, but having *miniature* Skinner's Chestpiece with single outlet (B)

AD 6059 SPRAGUE-BOWLES' CHESTPIECE, *miniature*, only

AD 6060 SKINNER'S CHESTPIECE, *miniature*, only

AD 6061 ALUMINIUM CHESTPIECE BELL ENDS only

AD 6062 VULCANITE CHESTPIECE BELL ENDS only

Dr. Beryl D. Corner, M.D., F.R.C.P., Consultant Pædiatrician to the United Bristol Hospital Group, writes .—

" *These stethoscopes have been designed to facilitate the examination of newborn infants, for the majority of whom the normal diameters of bell and diaphragm chestpieces are too large to fit over the small intercostal spaces, particularly in infants of very low birth weight. The lengths of double and single rubber tubing have been carefully measured to allow efficient auscultation of the infant in an incubator, or oxygen tent, without undue disturbance and without opening the incubator. The single tube is inserted through one of the special holes in the hood.*

" *Two types of chestpiece are available. The simple miniature bell end pattern is intended mainly for use by nurses who are trained to count the apex beat by auscultation rather than palpate the peripheral pulse rate. The chestpiece is of small enough diameter to be inserted through the tubing hole of incubators in current use, and can be easily sterilised by boiling. For diagnostic auscultation by the pædiatrician, modification in size only of the standard Sprague-Bowles' chestpiece has been made, with a bell end similar to that of the ' nurses ' stethoscope. The small bell and diaphragm make satisfactory contact with the chest wall even in the smallest premature infant and may easily be strapped to the chest wall if it is required to auscultate at frequent intervals as during exchange blood transfusion.*

" *I prefer to use, and recommend, the above with aluminium bell ends, which can be repeatedly sterilised without deterioration, but they are also available with vulcanite bell ends for those who prefer this material.*"

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NOTE.—Many items appear in more than one section of this Catalogue according to the multiplication of their use. Prefixes to the page numbers indicate the relative surgical sections. The Brief Index on page *twenty-four* provides a key to the prefixes which are abbreviations of the sectional headings.

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Srivastava's Laryngoscope	G10
Stack's Retractor	AD952
Stethoscopes, Paediatric	AD954
Stevens' Abdominal Retractor	AD937
Stiles' modified Tissue Forceps	AD941
Strippers, Endarterectomy	AD948
Surgilope Sutures	S769–770, AD929–932
Suture Wire on Needles	S770
Swinney's Bladder Biopsy Forceps	U241
Taylor's Mitral Valve Dilator	AD950
Punch	AD950
Thomas' (Price) Rib Raspatory	AD945
Tibbs' Arterial Cannulae	AD948
Tibbs' modified Aneurysm Needle	AD938
Tissue Forceps	AD941
Transfusion Flow Regulator	IT742
Trolley, Resuscitation	G1
Tube Clamping Forceps	AD949
Vaginal Specula	AD941, AD944
Venous Reamers	AD949
Verel's Skin-Fold Thickness Forceps	AD951
Vesico-Vaginal Fistula Instruments, for repair of	AD941–944
Vessel Clamps	L447
Wade's Tube Clamping Forceps	AD951
Watson's Coronary Perfusion Cannula	AD951
Scissors	AD945
Zachary-Lister's Crushing Clamp	AD953

PLASTIC SURGERY AND DENTAL INSTRUMENTS: SEE NEW SECTION AFTER THE INDEX
SEE ALSO SUPPLEMENTARY INDEX ON PAGES XLV AND XLVI

Printed in Great Britain

New Section

for

PLASTIC, MAXILLO FACIAL,
ORAL and HAND SURGERY
INSTRUMENTS

Index for above

will be found at the end of this
section, pages 49–77 to 49–80.

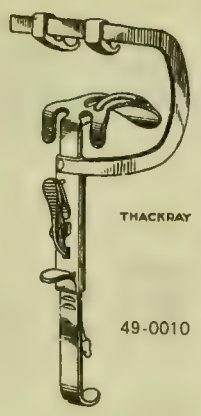
New Section

for

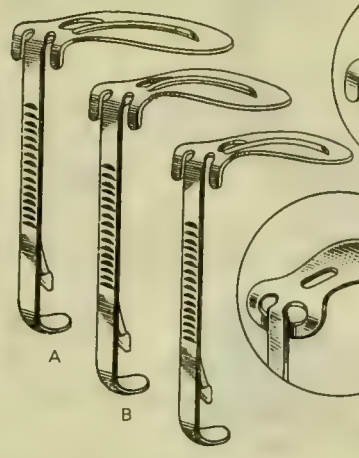
PLASTIC, MAXILLO FACIAL,
ORAL and HAND SURGERY
INSTRUMENTS

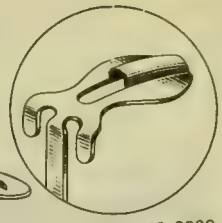
Index for above

will be found at the end of this section, pages 49–77 to 49–80.



49-0010





49-0020

49-0024

49-0010
DOTT'S MOUTH GAG, KILNER'S modification, with three sizes of tongue blades (A, B and C) with anaesthetic tubes, stainless steel.

49-0016
DOTT'S MOUTH GAG, KILNER'S modification, as above but **without** anaesthetic tubes, stainless steel.

49-0020
†**DOTT'S MOUTH GAG, KILNER'S** modification, as above but with **"EGART"** (East Grinstead Pattern) Tongue Blades.

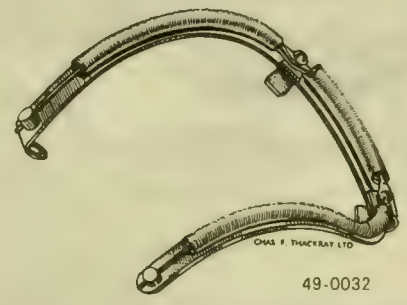
49-0024
DOTT'S MOUTH GAG, KILNER'S modification, as above but **without** anaesthetic tubes and fitted with OLDFIELD'S GUARD SHIELDS on blades.

† *Small blade will accommodate Magill Tubes to size* 5.

† *Medium blade will accommodate Magill Tubes to size* 7.

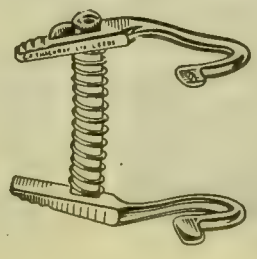
† *Large blade will accommodate Magill Tubes to size* 10.

† *Ref. "The Lancet", Sept.* 25*th*, 1954.



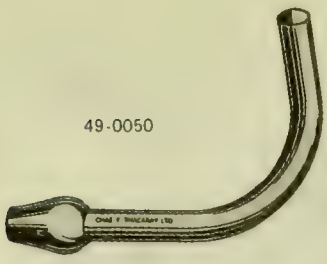
49-0032

49-0032
KILNER'S SUTURE CARRIER, for use on Dott's Mouth Gag, silver plated.



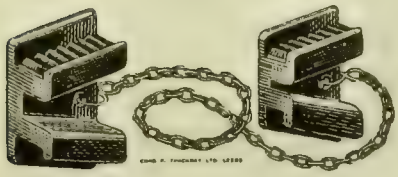
49-0036

49-0036
LANE'S MOUTH GAG, cleft palate, stainless steel, three sizes: small, medium and large.



49-0050

49-0050
HARRIS' INTRA-TRACHEAL CONNECTION, chromium plated, three sizes: $\frac{3}{16}$ in., $\frac{1}{4}$ in. and $\frac{5}{16}$ in. external diameter (4.7, 6.3, 7.9 mm.)



49-0058

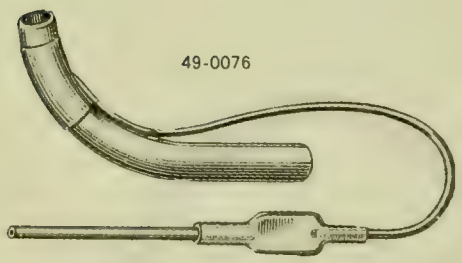
49-0058
MOUTH PROPS, solid rubber, vulcanized over a metal core, with deep corrugations, pair of two sizes: medium and large, connected by chain.

49-0062
MOUTH PROPS, as above but medium size.

49-0064
MOUTH PROPS, as above but small size.

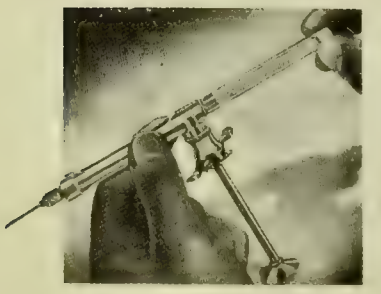
Note : The medium size Mouth Prop is made with or without channel for tongue, the small size only, without channel. Any combination of small, medium and large can be supplied with chain or singly.

The flange is inserted between cheek and teeth, thus preventing displacement lingually: the cheek muscles keep the prop from being dislodged outwards or bucally. The deep corrugations prevent anterior displacement and the channel allows the tongue to be packed over on the side opposite the operative field, thus giving more room for work in the mouth. When a large number of teeth are to be extracted the small prop should be used where teeth are standing. The large prop can be inserted where teeth have been removed, thus assisting in arrest of haemorrhage and enabling other teeth to be extracted.



49-0076

49-0076
BULBAR TRACHEOTOMY TUBE, rubber, with fixed inflation cuff and pilot balloon, designed for use in artificial ventilation, sizes: 1 to 12† Magill's Tube Gauge (20 to 34 French Catheter Gauge).



49-0088

49-0088
CARTRIDGE DENTAL SYRINGE, complete with three nozzles, chromium plated, and tube of twelve stainless steel Schimmel's Needles ($1\frac{1}{8}$ in. by 26 S.W.G.) in card box.

49-0094
SCHIMMEL'S NEEDLES, double-ended, for above, in tubes of twelve needles.

†*Actual sizes, see Page G.*25 Thackray Instrument *Catalogue.*

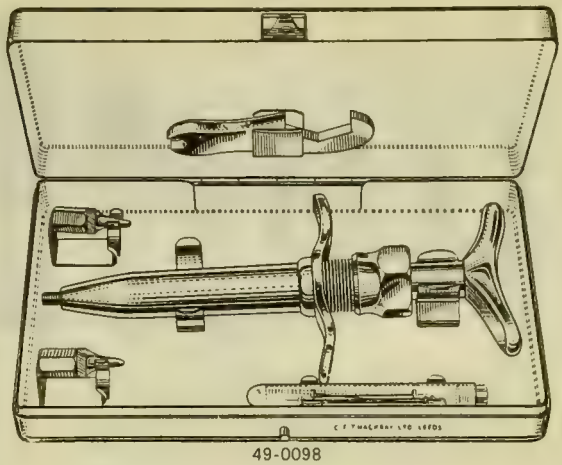
S.W.G. = Standard Wire Guage.

49-0098

GILLIES' ANAESTHETIC SYRINGE, for local anaesthesia, consisting of: 60 min. all metal syringe, two adapters, tube of six Schimmel's needles and spanner, in chromium plated case.

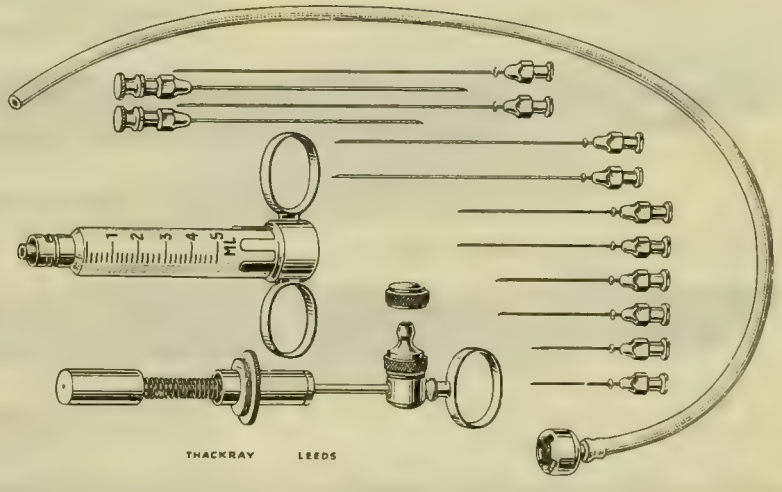
49-0104

SCHIMMEL'S NEEDLES, 26 S.W.G. by 45 mm., in tubes of six needles.



49-0098

49-0108



49-0108

VITA - LOCK PITKIN'S SYRINGE, for local and spinal anaesthesia, consisting of: 5 ml. syringe with metal Luer-locking nozzle and finger rings; range of ten stainless steel needles and two Pitkin's spinal needles; rubber tubing, metal sinker and sealing plug; contained in nickel plated case fitted with lift-out rack.

The piston of this syringe has a hollow centre tube through which solutions are introduced in a continuous flow by means of the spring-return piston rod. A sealing plug is provided for use when the self-filling device is not required. A metal bead is fitted to the shaft of each needle as a safety measure to prevent the needle - in the event of breakage - from being lost in the tissues and to facilitate easy removal.

49-0110
Needles, with safety bead, size 25 S.W.G. by $\frac{1}{4}$ in. long (.5 x 23 mm.).

49-0112
Needles, with safety bead, size 22 S.W.G. by $1\frac{1}{2}$ in. long (.7 x 40 mm.)

49-0114
Needles, with safety bead, size 22 S.W.G. by 2 in. long (.7 x 50 mm.)

49-0116
Needles, with safety bead, size 22 S.W.G. by $3\frac{1}{4}$ in. long (.7 x 80 mm.)

49-0118
Needles, with safety bead, size 20 S.W.G. by $4\frac{1}{4}$ in. long (.9 x 105 mm.)

49-0120
Pitkin's Spinal Needles, size 22 S.W.G. by 3 in. long (.7 x 75 mm.)

49-0122
Pitkin's Spinal Needles, size 20 S.W.G. by $3\frac{1}{2}$ in. long (.9 x 90 mm.)

PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-0128

*"Duray": Thackray Regd. Trade Mark.

(*British Standard Specification No.* 2982).

† Contract rates upon request.

49-0128
†DURAY* *STERILE* **DETACHABLE SCALPEL BLADES** Sizes: 10, 10A, 11, 12, 15, 20, 21, 22, 23, 24 and 25. In Dispenser Pack of 1 gross of a size.

†49-0140
DURAY* *NON STERILE* **DETACHABLE SCALPEL BLADES**
Sizes as above. In cartons of 1 gross.



49-0152

49-0152
DURAY* SCALPEL HANDLE No. 3
For blades Nos. 10, 10A, 11, 12 and 15.



49-0154

49-0154
DURAY* SCALPEL HANDLE No. 4
For blades Nos. 20, 21, 22, 23, 24 and 25.



49-0156

49-0156
DURAY* SCALPEL HANDLE No. 5.
For blades Nos. 10, 10A, 11, 12 and 15.



49-0166

49-0166
JOSEPH'S NASAL KNIFE, probe-ended, nickel plated.

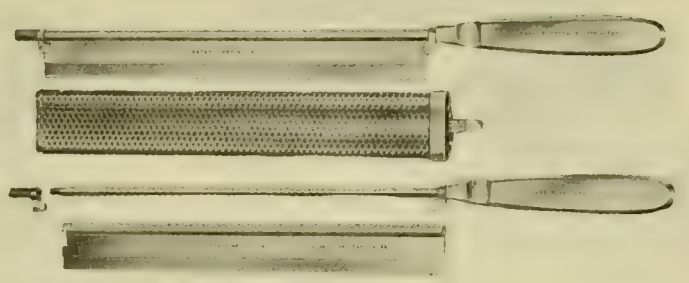


49-0168

49-0168
JOSEPH'S NASAL KNIFE, curved-on-flat, double-edged.

49-0170
JOSEPH'S NASAL KNIFE, as above but straight.

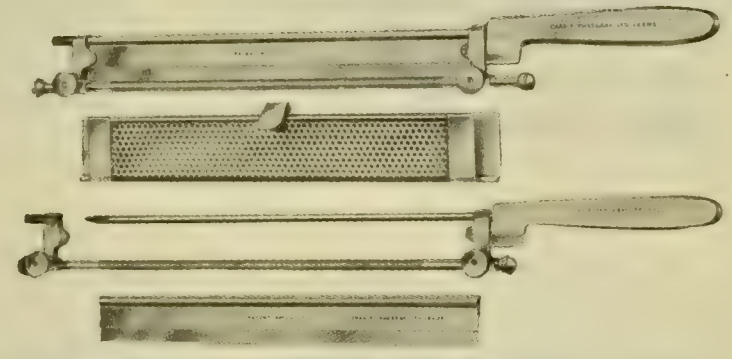
KNIVES FOR CUTTING SKIN GRAFTS USING REPLACEABLE BLADES
British Patent No. 641,307.



49-0176

49-0174
BODENHAM'S improved BLAIR'S SKIN GRAFTING KNIFE, with two replaceable blades and perforated metal guard.

49-0176
BLADES for above, 7¾ in. long (196.8 mm.)



49-0176

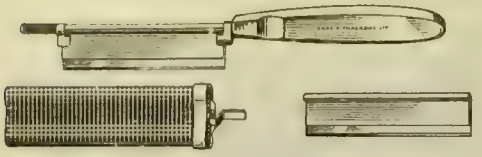
49-0180
BODENHAM'S improved HUMBY'S SKIN GRAFTING KNIFE, with detachable roller, two replaceable blades and perforated metal guard.

49-0176
BLADES for above, 7¾ in. long (196.8 mm.).

The two Knives illustrated above, made to the suggestions of D. C. Bodenham F.R.C.S. (Edin.), Plastic Surgery Unit, Frenchay Hospital, Bristol, provide improved cutting instruments. Both Blair and Humby patterns have been redesigned to take a replaceable blade (which is the same for both Knives). The blades 7¾ in. long, made of scientifically hardened and acutely sharp lengths of safety razor strip, are mounted in stainless steel frames for rigidity. Their tubular backs fit exactly the rod of each knife handle, and are secured by a small bracket and circular milled nut, thus providing light and rigid perfectly balanced skin grafting knives with blades which will cut a number of grafts before they need replacement.

The illustrations show both patterns assembled and with the replaceable blade detached; the replacement of a blunt blade is a matter of a few seconds.

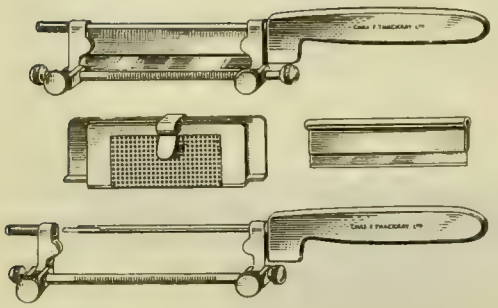
PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-0184

49-0184
HARRISON'S modified BODENHAM-BLAIR SKIN GRAFTING KNIFE, miniature size, with two replaceable blades and perforated metal guard.

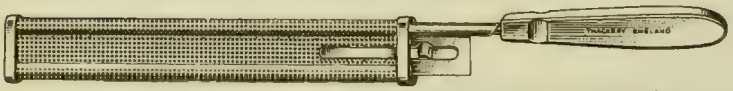
49-0186
BLADES for above, 3¼ in. long (79.3 mm.).



49-0190

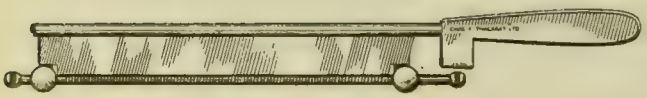
49-0190
POTTER'S modified BODENHAM-HUMBY'S SKIN GRAFTING KNIFE, miniature size with detachable roller, two replaceable blades and perforated metal guard.

49-0186
BLADES for above, 3¼ in. long (79.3 mm.).



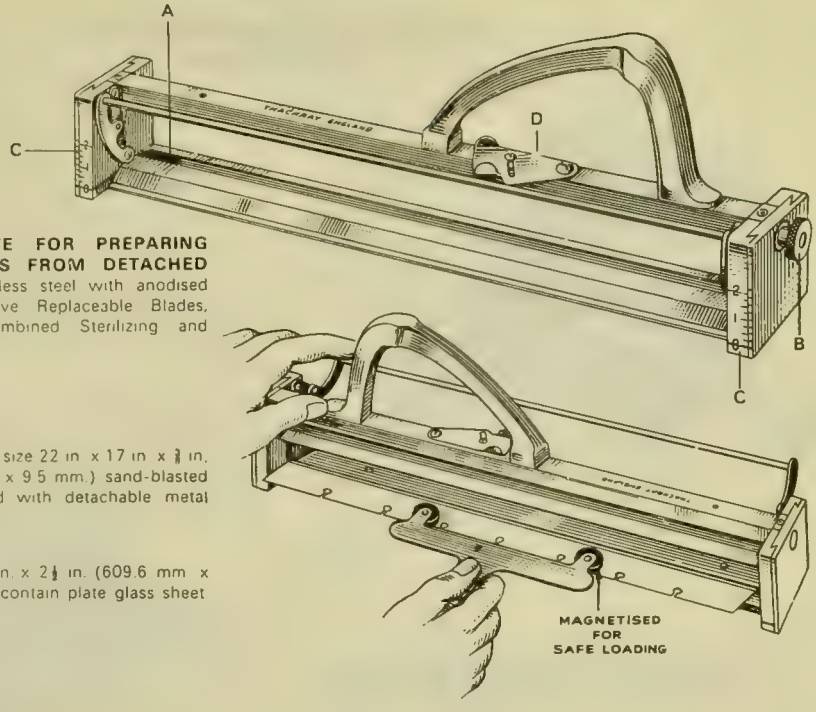
49-0194

49-0194
BLAIR'S SKIN GRAFTING KNIFE, with fixed blade and perforated metal guard.



49-0198

49-0198
HUMBY'S SKIN GRAFTING KNIFE, with fixed blade and detachable roller, complete in wood case.



49-0202
GIBSON-ROSS' KNIFE FOR PREPARING LARGE SKIN GRAFTS FROM DETACHED SKIN AND FAT, stainless steel with anodised aluminium handle, twelve Replaceable Blades, complete in metal combined Sterilizing and Carrying Case

49-0204
BLADES, for above

49-0206
PLATE GLASS SHEET, size 22 in x 17 in x ⅜ in. (558.8 mm. x 431.8 mm. x 9.5 mm.) sand-blasted on both sides and fitted with detachable metal carrying handles.

49-0208
TRAY, size 24 in x 18 in. x 2½ in. (609.6 mm x 457 mm. x 63.5 mm.) to contain plate glass sheet in Hibitane solution

49-0210
EVO-STIK Adhesive.

49-0212
BRUSH for applying Evo-stik Adhesive.

Patent applied for 49-0202

Mr. Thomas Gibson, M.B. Ch.B. Glasg., F.R.C.S.Ed., F.R.C.P.S.Glasg., Consultant Plastic Surgeon, Western Infirmary, Glasgow, and Dr. Donald S. Ross, B.Sc., A.R.C.S.T., A.M.I.Mech.E., A.M.I.Prod.E., Bio-Engineering Unit, University of Strathclyde, Glasgow, write —

"It is very often possible following an extensive degloving injury, to obtain a satisfactory result by using the detached skin as a free graft, whereas replacing the skin and fat results in inevitable necrosis.

"The tedious process of "defatting" the skin with scissors, or alternatively the cutting of free grafts with available instruments from the detached mass of tissue is a difficult technical feat. The technical problems are similar in the surgical correction of lymphoedema of the legs.

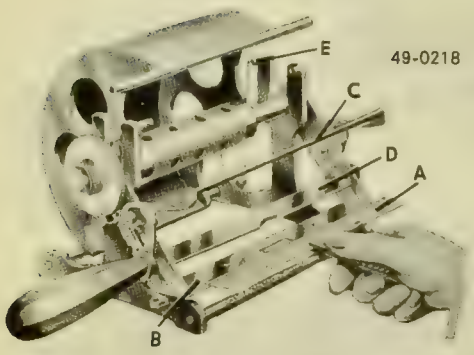
"The above instrument has been developed to cut readily free skin grafts of any desired thickness, in strips of up to 11 in. (280 mm.) in width and of indefinite length. The knife consists of a rigid framework in which a twelve inch disposable blade is held in position by a locking plate A. At each end is a moveable footpiece which will raise or lower the cutting edge to any desired height above the flat surface upon which the knife is used. The thumb screw B adjusts both footpieces simultaneously and the exact height required is obtained by reference to the millimetre vernier scale C at each end. The clamp D locks the mechanism. The handle is positioned over the blade so that downward thrust may be obtained while cutting.

"The knife requires an accurately flat surface upon which to function. For economy, flatness and freedom from distortion, we have used a sheet of plate glass sanded on both surfaces. It is sterilized in Hibitane in its carrying tray. The knife itself is autoclaved while the blades are sterilized in Hibitane.

"In practice, the skin surface of the detached tissue is first cleansed with spirit and ether to remove moisture and grease and then coated with a layer of an impact adhesive (Evo-stik is at present recommended) which is thinned with ether until it runs freely from the brush. One sanded surface of the glass is similarly treated. The mass of tissue is now transferred to the plate glass so that the skin surface adheres to the sanded glass surface. It is essential at this stage that wrinkles or air bubbles are not allowed to form and assistants are necessary to keep the skin extended. The knife is used with a reciprocating sawing movement and downward pressure maintained throughout the cutting. In most cases it should pass through the deepest layer of the dermis and since skin varies in thickness, frequent checks of the height of the footpieces are necessary. Finally the skin is removed from the plate. Most of the adhesive remains on the glass (from which it may be cleansed with ether) and there is no need to remove it from the skin. It appears to have no harmful effects and has been used extensively with the drum dermatome since McGregor (1958) described this application"†

Vide Lancet, Jan. 30, 1965 *pp* 252-253.
†*Vide British Jnl Plastic Surgery*, 1958, 11, 174.

THACKRAY MECHANICAL DERMATOME
for cutting skin grafts



49-0218

Fig. 1

49-0218
THACKRAY MECHANICAL DERMATOME, with Stand chromium plated twelve Replaceable Blades complete in metal combined Sterilizing and Carrying Case.

49-0220
BLADES, for above.

49-0222
LATEX CEMENT, non-inflammable for use with Dermatome in 1 lb. tins.

49-0224
LATEX CEMENT, in collapsible tubes approx. 2½ dr. capacity.

49-0226
BRUSH for applying Latex Cement.

49-0218

The mechanical dermatome for cutting skin grafts of a measured thickness has taken a permanent place among instruments used by the plastic and general surgeon. Originally evolved by E. C. Padgett of Kansas City, an improved machine was made in England by Chas. F. Thackray Ltd. and quickly found favour.

In the latest instrument, which supersedes the Padgett-Bishop model previously illustrated, several novel features have been incorporated to increase its efficiency for the cutting of skin grafts of a predetermined thickness. These improvements may be summarised as follows:

1. The use of a Replaceable Blade of wafer-thin steel with razor edge, 6¼ in. long (158.35 mm.).

2. Replaceable Blade, simple to fix and remove (see Fig. 1) on its Holder (B) by means of a Clamping Plate (D) working in a slide which is actuated by a simple hinged bar.

3. An instrument of lighter weight to provide greater sensitivity during operation.

Frg. 1 illustrates the instrument mounted on its stand and being prepared for use by the insertion of a replaceable blade in the blade-holder. The Blade (A) is fed forward by means of dissecting forceps as illustrated and located on two pins fixed to the flat surface of the Holder (B). A simple downward movement of the Lever Bar (C) to operate the Clamping Plate (D) securely fixes the blade in its operative position.

THACKRAY MECHANICAL DERMATOME
(*continued*)

The drum is shown held vertically on the stand to facilitate the insertion of the blade and when this has been done the drum may be turned completely upside down to enable its surface to be painted with Latex cement. (Each side-member of the drum has two large holes to enable it to be held in a vertical or completely inverted position on one of the Locating Pins (E) of the stand).

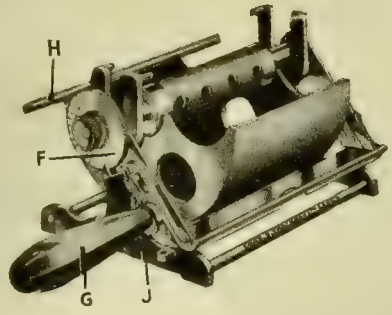


Fig. 2

Fig. 2 shows the assembled instrument mounted on stand ready for use. The Graduated Wheel (F) actuates a simple cam mechanism to increase or decrease the distance from the blade-edge to the drum surface. When revolved in an anti-clockwise direction the graduated wheel increases the setting in sixteen stages from zero to 16. Each graduation represents .001 inch so that the maximum thickness is .016 inch.

A Handle (G) for working the instrument can be fitted to either side; this is shown in Fig. 2 for a right-handed operator. (A tapped lug on the opposite arm enables the instrument to be assembled for use by a left-handed surgeon.)

A simple Safety Bar (H) is fitted to one end of the drum. This automatically prevents the cutting blade from travelling beyond the distal edge of the drum and so provides complete safety for the surgeon and assistants in the handling of the instrument.

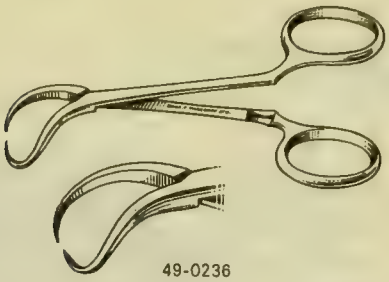
The Stand (J) is of robust construction. It has been designed so that the instrument may be placed on it without any danger of damaging the cutting edge of the blade. It is fitted with two tapped lugs at opposite corners of the base to hold the Handle (G) in a vertical position during sterilization.

The drum has a roughened surface and enables a graft size 8 in. by 4 in.(203 mm. x 101.6 mm.) to be cut.

For efficient handling the instrument is provided with a metal case with perforated sides to permit sterilization in high-pressure steam in an autoclave.

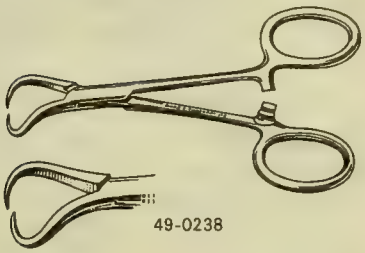
The replaceable blades should be sterilized in hot air or immersed in any of the recognised bactericidal solutions.

NOTE—Before inserting the blade in its holder, it is advisable to set the Graduated Wheel (F) to a setting halfway between zero and maximum. This will enable the surgeon to locate the zero position for the particular blade in use.



49-0236

49-0236
BACHAUS' TOWEL FORCEPS, screw joint 3½ in., (88.9 mm.) stainless steel.



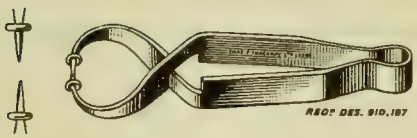
49-0238

49-0238
BACHAUS' TOWEL FORCEPS, as above but with box joint.



49-0240

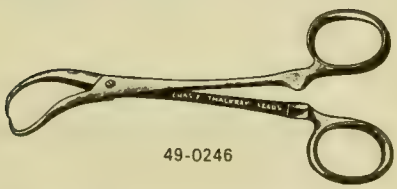
49-0240
DENIS BROWNE'S TOWEL FORCEPS, for penile holding, box joint, 5½ in. (139.7 mm.) stainless steel.



49-0242

49-0242
FRENCHAY HOSPITAL PATTERN TOWEL FORCEPS, 3½ in. (88.9 mm.), stainless steel.
Designed to prevent tearing of towels.

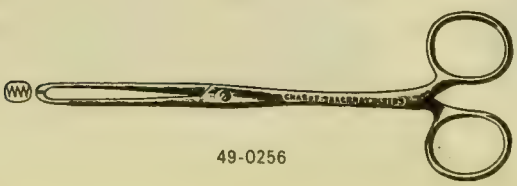
49-0244
SHARDLE'S PATTERN TOWEL FORCEPS, 3½ in. (88.9 mm.) stainless steel, without discs on jaws.



49-0246

49-0246
MAYO'S TOWEL FORCEPS, screw joint, 5½ in. (139.7 mm.) stainless steel.

49-0248
MAYO'S TOWEL FORCEPS, as above but with box joint.



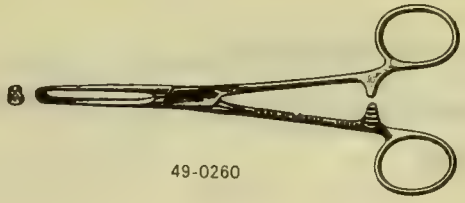
49-0256

49-0256
ALLIS' TISSUE FORCEPS, with four into five teeth, screw joint, 6 in. (152 mm.) stainless steel.

49-0258
ALLIS' TISSUE FORCEPS, as above but with box joint.

49-0260
ALLIS' TISSUE FORCEPS, American Pattern, with three into four teeth, box joint, 5¾ in. (146 mm.) stainless steel.

Note — Larger size — 7¾ in., (196.8 mm.) known as *Judd-Allis', see page G55 in Thackray Instrument Catalogue.*



49-0260

49-0270
DISSECTING FORCEPS, turn-over end, serrated jaws, 5 in. (127 mm.) stainless steel.

49-0272
DISSECTING FORCEPS, as above but 6 in. (152 mm.)

49-0274
DISSECTING FORCEPS, as above but 7 in. (177.8 mm.)

49-0276
DISSECTING FORCEPS, as above but 8 in. (203 mm.)



49-0270

49-0278
ADSON'S DISSECTING FORCEPS, lightweight handles, with fine one into two teeth on smooth jaws, 5 in. (127 mm.) stainless steel.

49-0280
ADSON'S DISSECTING FORCEPS, as above but 7 in. (177.8 mm.)

49-0282
ADSON'S DISSECTING FORCEPS, as above but with **non-toothed** serrated jaws, 5 in. (127 mm.)

49-0284
ADSON'S DISSECTING FORCEPS, as above but 7 in. (177.8 mm.)
Originally designed for neurosurgery.



49-0278

49-0286
BARSKY'S DISSECTING FORCEPS, with multiple teeth, 6 in. (152 mm.) stainless steel.
Particularly suitable for holding tissue that might otherwise slip.



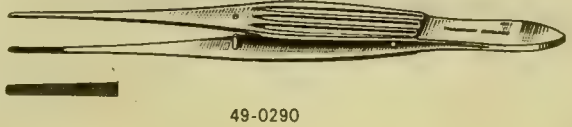
49-0286

49-0288
BARSKY'S DISSECTING FORCEPS, with broad serrated jaws, 6 in. (152 mm.) stainless steel.
The broad tips of the jaws enable either skin or cartilage to be held without damage or slipping.

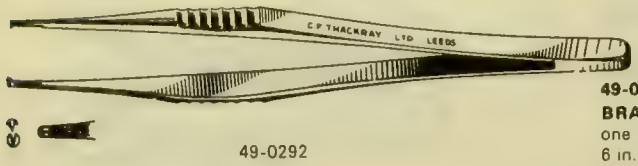


49-0288

49-0290
BARSKY'S LIGATURE FORCEPS, with serrated jaws, 7 in. (177.8 mm.) stainless steel.



49-0290



49-0292

49-0292

BRAITHWAITE'S DISSECTING FORCEPS, with one into two teeth on serrated and grooved jaws, 6 in. (152 mm.) stainless steel.

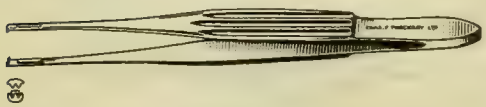
Particularly useful in suturing, for "pulling through", etc.



49-0294

49-0294

BROWN'S modified ADSON'S DISSECTING FORCEPS, with multiple teeth, 5 in. (127 mm.) stainless steel.

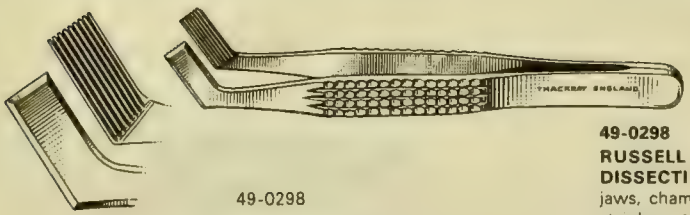


49-0296

49-0296

CHARNLEY'S modified McINDOE'S DISSECTING FORCEPS, with two into three teeth and block on jaw, 6 in. (152 mm.) stainless steel.

Particularly suitable for suture tying in Hand Surgery and other techniques.



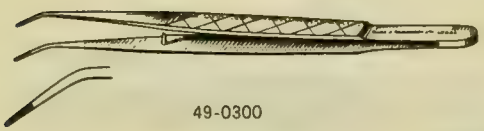
49-0298

49-0298

RUSSELL DAVIES' BURNS DESLOUGHING DISSECTING FORCEPS, with broad, serrated jaws, chamfered on all edges, 6½ in. (164.7 mm.) stainless steel.

These forceps allow a finer grasp of the tissue requiring removal. When used in a plane-like fashion, the chamfered edges aid separation of the tissue.

Vide Lancet Jan. 9, 1965, *page* 91.



49-0300

49-0300

DENTAL PACKING FORCEPS, with serrated angled jaws, 6 in. (152 mm.), stainless steel.



49-0302

49-0302

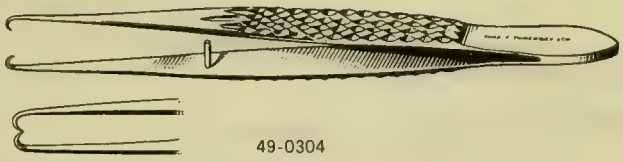
EVANS' modified McINDOE'S DISSECTING FORCEPS, with "horseshoe" shaped jaws for holding skin flap edges, 6 in. (152 mm.), stainless steel.

Designed for holding a mobile skin flap edge whilst a suture is passed through the "horseshoe" shaped jaws.

For full details of use, please request copy of Thackray Catalogue Supplement No. 5.

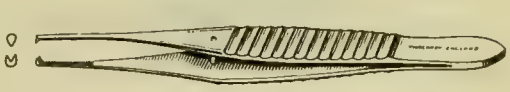
49-0304
FISCHL'S DISSECTING FORCEPS, with fine "sharp hook" jaws, 6 in. (152 mm.), stainless steel.

The above was designed for suturing the skin with minimal trauma. It has the advantages of fine hooks for everting the skin edges; may be used to pick up a piece of skin, or as a small retractor.



49-0304

49-0306
GILLIES' DISSECTING FORCEPS, with fine one into two teeth on serrated jaws, 6 in. (152 mm.), stainless steel.

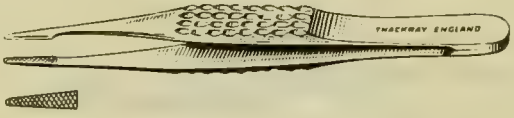


49-0306

49-0308
GILLIES' DIATHERMY DISSECTING FORCEPS, as above but covered with boilable insulating material with exception of ¼ in. (6.3 mm.), tips of jaws, and having diathermy plug terminal.

49-0310
CABLES, rubber covered, with socket type terminal for use with above.

49-0312
HARRISON'S DISSECTING FORCEPS, with fine serrated jaws, 5 in. (127 mm.), stainless steel.



49-0312

49-0314
LANE'S DISSECTING FORCEPS, with roughened sides and one into two teeth on serrated jaws, 5¾ in. (146 mm.), stainless steel.



49-0314

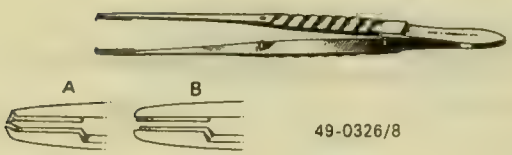
49-0316
LANE'S DISSECTING FORCEPS, as above, but with two into three teeth.

49-0318
LANE'S DISSECTING FORCEPS, as above, but with three into four teeth.

49-0320
LANE'S DISSECTING FORCEPS, as above, 7 in. (177.8 mm.), with one into two teeth.

49-0322
LANE'S DISSECTING FORCEPS, as above, but with two into three teeth.

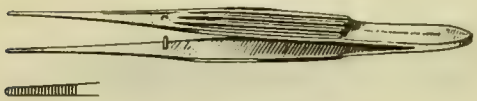
49-0324
LANE'S DISSECTING FORCEPS, as above, but with three into four teeth.



49-0326/8

49-0326
LISTER'S DISSECTING FORCEPS, with one into two teeth (A) on block and grooved jaws, 4 in. (101.6 mm.), stainless steel.

49-0328
LISTER'S DISSECTING FORCEPS, as above, but without teeth (B).



49-0330

49-0330
McINDOE'S DISSECTING FORCEPS, with serrated jaws, 6 in. (152 mm.), stainless steel.

49-0332
McINDOE'S DISSECTING FORCEPS, as above, but with plain non-serrated jaws.



49-0334

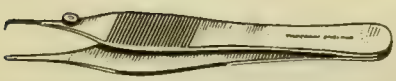
49-0334
MOUNT VERNON HOSPITAL PATTERN DISSECTING FORCEPS, with serrated jaws, 5 in. (127 mm), stainless steel.



49-0336

49-0336
MUSTARDÉ'S combined DISSECTING and SUTURE-HOLDING FORCEPS; double-hooked jaws with longitudinally serrated raised blocks, 6 in. (152 mm.), stainless steel.

Designed for skin suturing. The serrated blocks enable the double hooks to grip and evert the skin edge without crushing and the longitudinal serrations of the jaws allow needles and suture material to be gripped and withdrawn.—J. C. Mustardé, F.R.C.S.

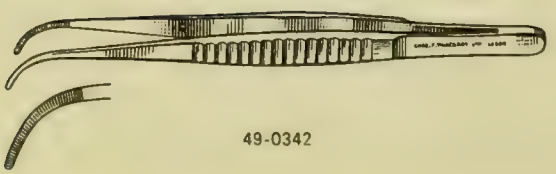


49-0338

49-0338
PIGOTT'S DISSECTING FORCEPS, with one plain jaw and one detachable hook jaw, 5 in. (127 mm.), stainless steel.

49-0340
HOOK JAWS for above.

Particularly useful when working with skin edges, as they are non traumatic and can be used as a hook or as a dissecting forceps for certain procedures. Vide B.M.J., Nov. 21st, 1964, p.1324.

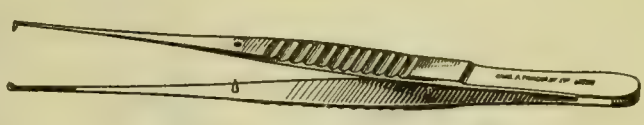


49-0342

49-0342
READ'S modified WAUGH'S DISSECTING FORCEPS, with curved serrated jaws, 7 in. (177.8 mm.), stainless steel.

The long curved jaws can be inserted into sockets for exploration, removal of foreign bodies, application and removal of dressings, etc.

49-0344
WAUGH'S DISSECTING FORCEPS, with fine one into two teeth on serrated jaws, 8 in. (203 mm.), stainless steel.



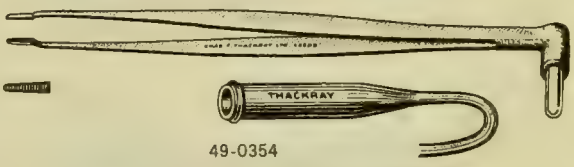
49-0344

49-0346
WAUGH'S DISSECTING FORCEPS, as above, but 7 in. (177.8 mm.).

49-0348
WAUGH'S DISSECTING FORCEPS, as above but with fine **non-toothed** serrated jaws, 8 in. (203 mm.).

49-0350
WAUGH'S DISSECTING FORCEPS, as above, but 7 in. (177.8 mm.).
Originally designed for tonsil work.

49-0352
WAUGH'S DISSECTING FORCEPS, with fine non-toothed serrated jaws 8 in. (203 mm.), stainless steel, covered with boilable insulating material with exception of tips of jaws and having diathermy plug terminal.



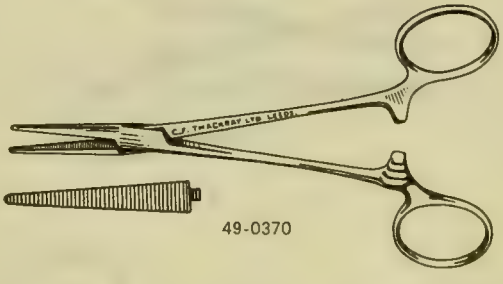
49-0354

49-0354
WAUGH'S DISSECTING FORCEPS, as above, but 7 in. (177.8 mm.).

49-0356
WAUGH'S DISSECTING FORCEPS, with fine one into two teeth on serrated jaws, 8 in. (203 mm.), stainless steel covered with boilable insulating material, with exception of tips of jaws and having diathermy plug terminal.

49-0358
WAUGH'S DISSECTING FORCEPS, as above but 7 in. (177.8 mm.).

49-0360
CABLES, rubber covered, with socket type terminal for use with above.



49-0370

49-0370
CRILE'S ARTERY FORCEPS, straight, box joint, 6 in. (152 mm.), stainless steel.

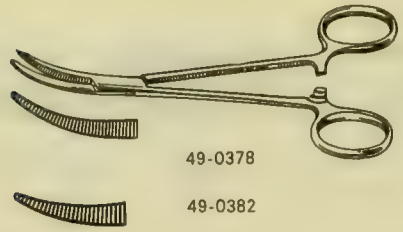
49-0372
CRILE'S ARTERY FORCEPS, as above, but curved-on-flat.

49-0374
HALSTED'S 'MOSQUITO' ARTERY FORCEPS, straight, box joint, 5 in. (127 mm.), stainless steel.



49-0374

49-0376
HALSTED'S 'MOSQUITO' ARTERY FORCEPS, as above, but with screw joint.



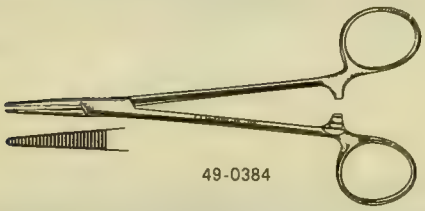
49-0378

49-0382

49-0378
HALSTED'S "MOSQUITO" ARTERY FORCEPS, curved-on-flat, box joint, 5 in. (127 mm.), stainless steel.

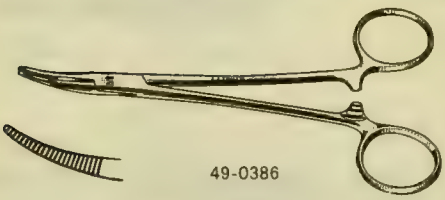
49-0380
HALSTED'S "MOSQUITO" ARTERY FORCEPS, as above, but with screw joint.

49-0382
HALSTED'S "MOSQUITO" ARTERY FORCEPS, with **short curved jaws,** curved-on-flat, box joint, 5 in. (127 mm.), stainless steel.



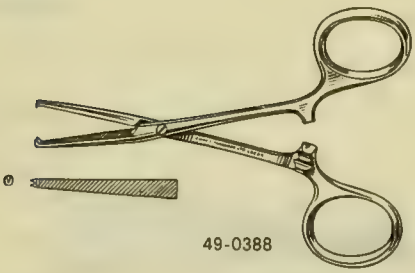
49-0384

49-0384
KILNER'S ARTERY FORCEPS, straight, box joint, 5½ in. (139.7 mm.), stainless steel.



49-0386

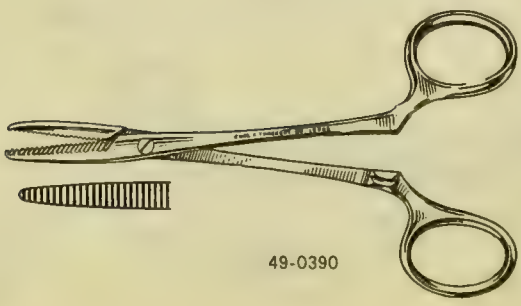
49-0386
KILNER'S ARTERY FORCEPS, as above, but curved-on-flat.



49-0388

49-0388
TERRIER'S ARTERY FORCEPS straight screw joint, 3½ in. (88.9 mm), stainless steel.

Used for tendon transplanting.



49-0390

49-0390
SPENCER WELLS' ARTERY FORCEPS, straight, screw joint, 5 in. (127 mm)., stainless steel.

49-0392
SPENCER WELLS' ARTERY FORCEPS, as above, but curved-on-flat.

49-0404
SCISSORS, straight, with fine sharp points, 4½ in. (114.3 mm.), stainless steel.

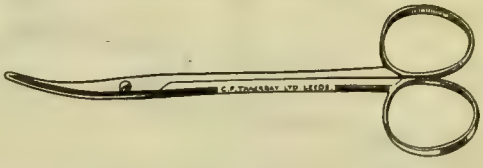
49-0406
SCISSORS, as above, but curved-on-flat.



49-0404

49-0408
SCISSORS, curved-on-flat, with fine blunt points, 4½ in. (114.3 mm.), stainless steel.

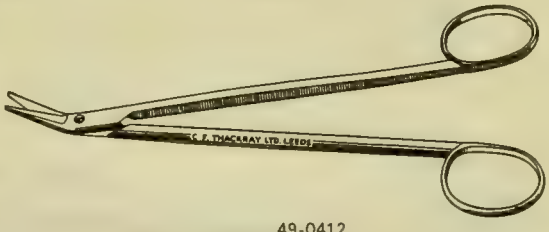
49-0410
SCISSORS, as above, but straight.



49-0408

49-0412
SCISSORS, angled-on-flat, with short blades, 7 in. (177.8 mm.), stainless steel.

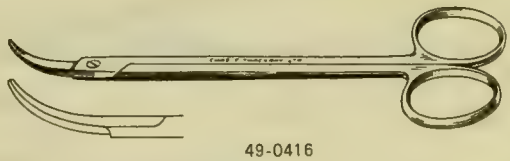
49-0414
SCISSORS, as above, but with serrated blades.



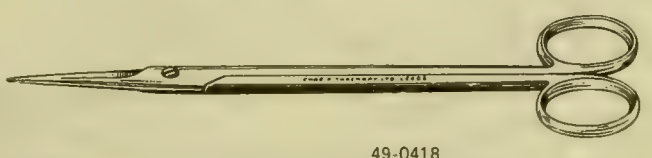
49-0412

49-0416
ALAR CARTILAGE SCISSORS, curved-on-flat, 4¾ in. (120.6 mm.), stainless steel.

For full details of use, please request copy of Thackray Catalogue Supplement No. 16.

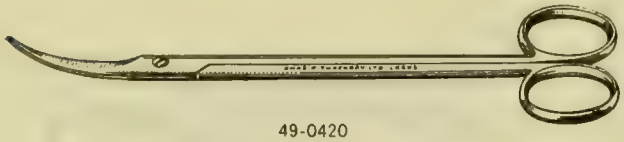


49-0416



49-0418

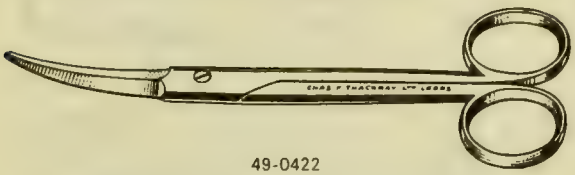
49-0418
AUFRICHT'S FINE SCISSORS, straight, with slender chamfered blades, 6 in.(152 mm.), stainless steel.
Particularly useful for trimming skin edges, etc.



49-0420

49-0420
AUFRICHT'S FINE SCISSORS, curved-on-flat, with slender chamfered blades, 6 in. (152 mm.), stainless steel.

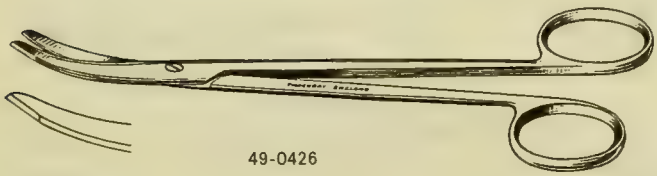
Particularly useful for trimming skin edges, etc.



49-0422

49-0422
AUFRICHT'S DISSECTING SCISSORS, with triangular blades, 5½ in. (139.7 mm.), curved-on-flat, stainless steel.

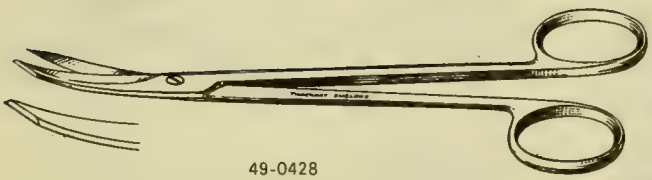
49-0424
AUFRICHT'S DISSECTING SCISSORS, as above, but straight.



49-0426

49-0426
BARSKY'S NASAL SCISSORS, curved-on-flat, with round, double edged, dissecting blades 6¼ in. (158.3 mm.), stainless steel.

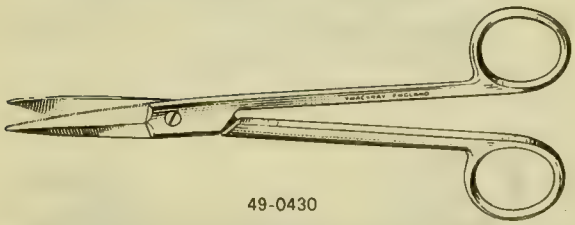
For undermining the skin of the dorsum of the nose.



49-0428

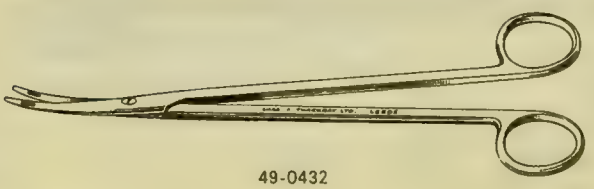
49-0428
BARSKY'S NASAL SCISSORS, as above, but with fine sharp points, 6¼ in. (158.3 mm.).

For separating the cartilage of the nasal tip from the lining.



49-0430

49-0430
CARTILAGE SCISSORS, fine pointed with serrated edges, 7 in. (177.8 mm.), stainless steel.

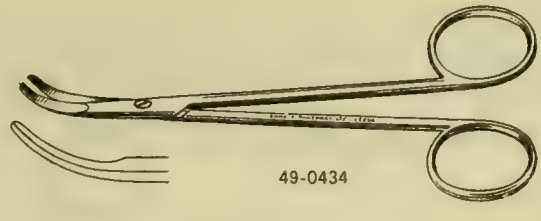


49-0432

49-0432
COHNEY'S SCISSORS - INTRODUCER, for facial paralysis sling operations, 7 in. long (177.8 mm.), having 3/16 in. wide (4.7 mm.) fenestration through both blades, stainless steel.

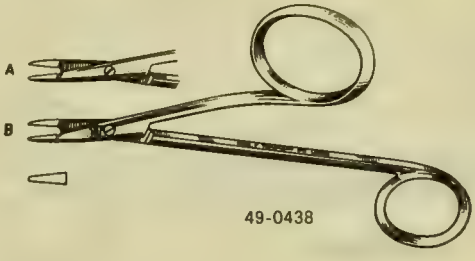
For full details of use, please request copy of Thackray Catalogue Supplement No. 4.

49-0434
"EAST GRINSTEAD" PATTERN SCISSORS, for alae, curved-on-flat, with flattened blunt points, 4¾ in. (120.6 mm.), stainless steel.


49-0434

49-0436
FOSTER'S NEEDLE HOLDER only (A) straight jaws, 4¼ in. (107.9 mm.), stainless steel.

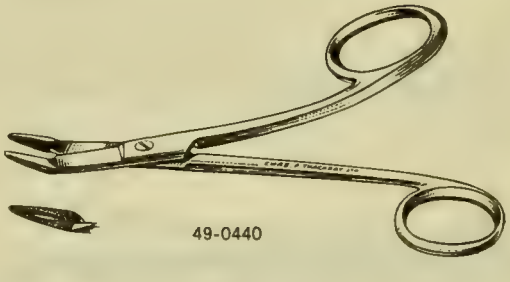
49-0438
FOSTER'S SCISSORS and NEEDLE HOLDER, combined (B) straight jaws 4¼ in. (107.9 mm.) stainless steel.



49-0438

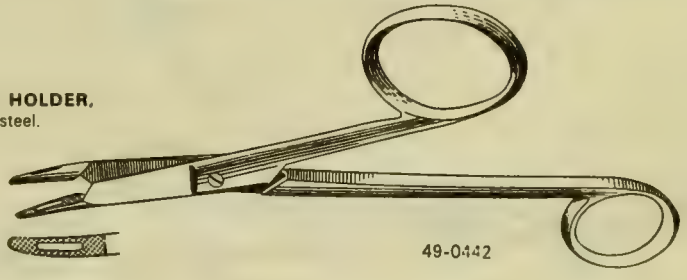
49-0440
FOSTER'S SCISSORS and NEEDLE HOLDER, combined, original pattern, curved jaws, 5¼ in. (133.3 mm.), stainless steel.

Can be made for left-hand use.


49-0440

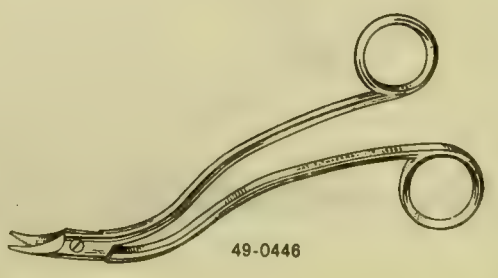
49-0442
GILLIES' SCISSORS and NEEDLE HOLDER, combined 6¼ in. (158.3 mm.), stainless steel.

Can be made for left-hand use.


49-0442

49-0444
GILLIES' SCISSORS and NEEDLE HOLDER, as above, without fenestration in jaw, and *with Tungsten Carbide faced jaws.*

49-0446
HEATH'S STITCH SCISSORS, with serrated blade, stainless steel.


49-0446



49-0448

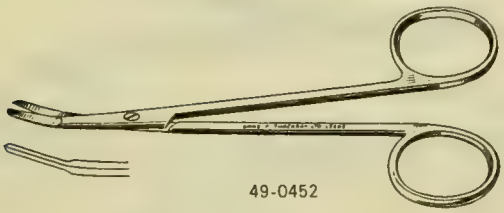
49-0448
KILNER'S SCISSORS, straight, with fine sharp points, 4¾ in. (120.6 mm.), stainless steel.



49-0450

49-0450
KILNER'S SCISSORS, curved-on-flat, with flattened blunt points, 4¾ in. (120.6 mm.), stainless steel.

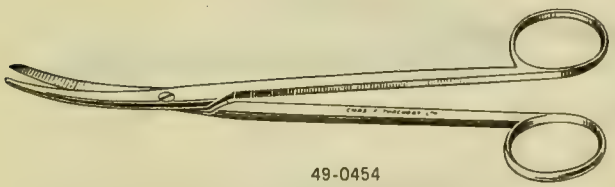
For undermining the skin.



49-0452

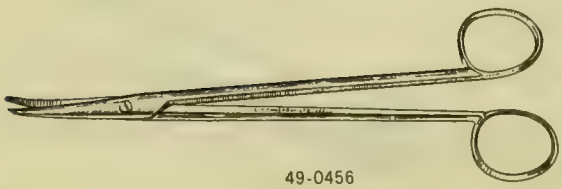
49-0452
KILNER'S SCISSORS, angled-on-flat, with flattened blunt points, 4¾ in. (120.6 mm.), stainless steel.

For undermining the skin.



49-0454

49-0454
LAHEY'S SCISSORS, curved-on-flat, with round points, 5¾ in. (146 mm.), stainless steel.

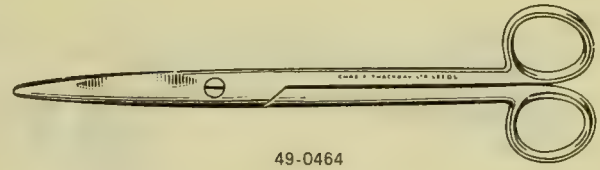


49-0456

49-0456
McINDOE'S SCISSORS, curved-on-flat, with round points, 7 in. (177.8 mm.), stainless steel.

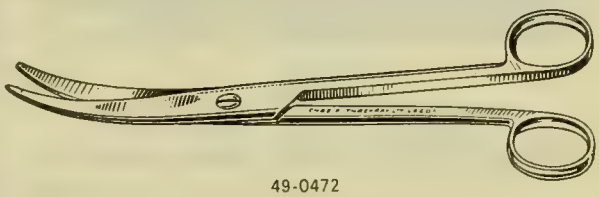
49-0458
McINDOE'S SCISSORS, as above, but 9 in. (228.6 mm.).

49-0460
MAYO'S SCISSORS, straight, with chamfered blades and blunt points, 5½ in. (139.7 mm.), stainless steel.
49-0462
MAYO'S SCISSORS, as above, but 6½ in. (164.7 mm.).
49-0464
MAYO'S SCISSORS, as above, but 7½ in. (190.5 mm.).
49-0466
MAYO'S SCISSORS, as above, but 8½ in. (215.9 mm.).



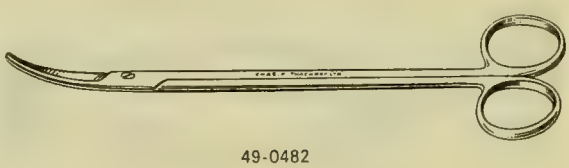
49-0464

49-0468
MAYO'S SCISSORS, curved-on-flat, with chamfered blades and blunt points, 5½ in. (139.7 mm.), stainless steel.
49-0470
MAYO'S SCISSORS, as above, but 6½ in. (164.7 mm.).
49-0472
MAYO'S SCISSORS, as above, but 7½ in. (190.5 mm.).
49-0474
MAYO'S SCISSORS, as above, but 8½ in. (215.9 mm.).



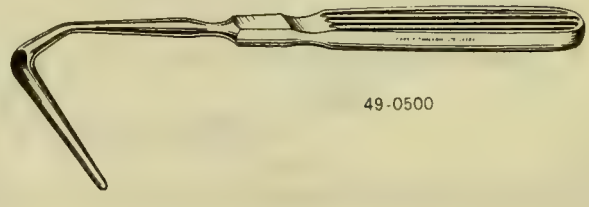
49-0472

49-0482
WATSON'S modified McINDOE'S SCISSORS, curved-on-flat, with fine blunt points and flattened blades, 7 in. (177.8 mm.), stainless steel.
49-0484
WATSON'S modified LAHEY'S SCISSORS, as above, but 6 in. (152 mm.).



49-0482

49-0500
AUFRICHT'S NASAL RETRACTOR, stainless steel in chromium plated handle.



49-0500

49-0502
BARSKY'S NASAL RETRACTOR, stainless steel.



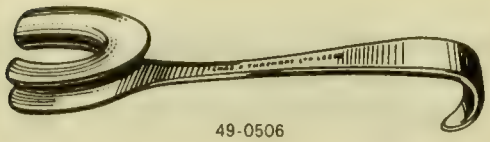
49-0502



49-0504
BARSKY'S SKIN HOOK, with detachable double hook, roughened handle, stainless steel.

49-0504

PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-0506

49-0506
CHEEK RETRACTOR, chromium plated.



49-0508

49-0508
CRILE'S RETRACTOR (or Walton's), malleable polished copper, 10 in. (254 mm.), sizes: ½ in. ¾ in. and 1 in. (12.7, 19.0 and 25.4 mm.) wide.

49-0512
CRILE'S RETRACTOR, as above, but 1¼ in. and 1½ in. (31.7 and 38.1 mm.) wide.

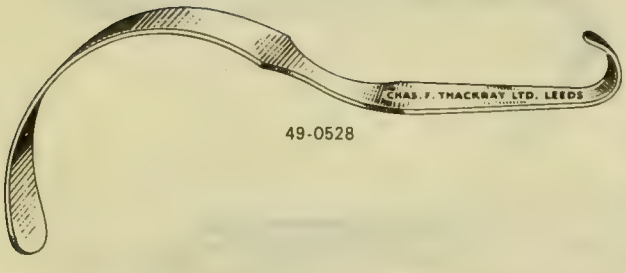
49-0516
CRILE'S RETRACTOR, malleable, polished copper, 7 in. (177.8 mm.) sizes, ½ in., ¾ in. and 1 in. (12.7, 19.0 and 25.4 mm.) wide.

Originally designed for neurosurgery.



49-0520

49-0520
CZERNY'S RETRACTOR, double-ended, blades ⅞ in. (22.2 mm.) wide, stainless steel.



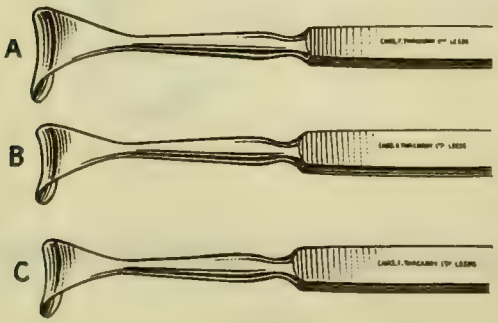
49-0528

49-0522
DEAVER'S RETRACTOR, 12 in. by 2 in. (304.8 x 50.8 mm.) stainless steel.

49-0524
DEAVER'S RETRACTOR, as above, but 12 in. by 1 in. (304.8 x 25.4 mm.).

49-0526
DEAVER'S RETRACTOR, as above, but 10 in. by 1 in. (254 x 25.4 mm.).

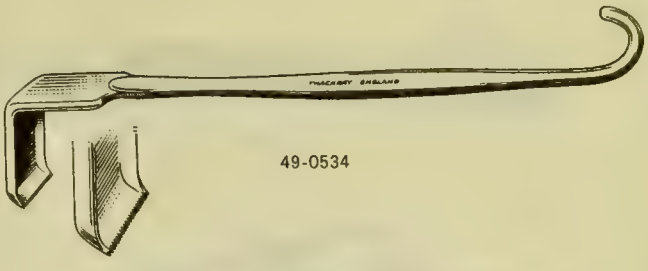
49-0528
DEAVER'S RETRACTOR, as above, but 9 in. by 1 in. (228.6 x 25.4 mm.).



49-0530

49-0530
DESMARRE'S RETRACTORS, three sizes: A, B and C, stainless steel.

49-0534
EDDEY'S PAROTID RETRACTOR, with dished blade and serrations on lower edge. 1 $\frac{3}{16}$ in. deep x $\frac{3}{4}$ in. wide (30.1 x 19 mm.), stainless steel.



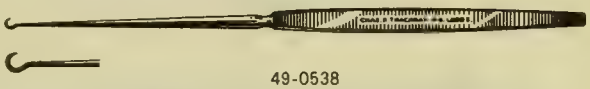
49-0534

49-0536
GILLIES' SKIN HOOK, for manipulating skin edges, stainless steel.



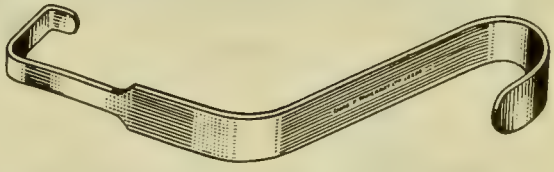
49-0536

49-0538
GILLIES' SKIN HOOK, extra large and strong, for retracting scar tissue, stainless steel.



49-0538

49-0540
HAJEK'S CHEEK RETRACTOR, stainless steel.



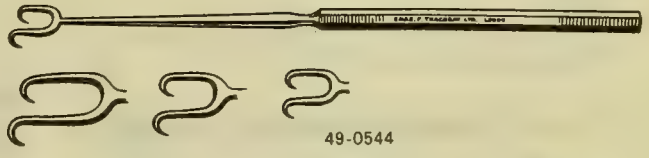
49-0540

49-0542
HUMBY'S DOUBLE SKIN HOOK, stainless steel.



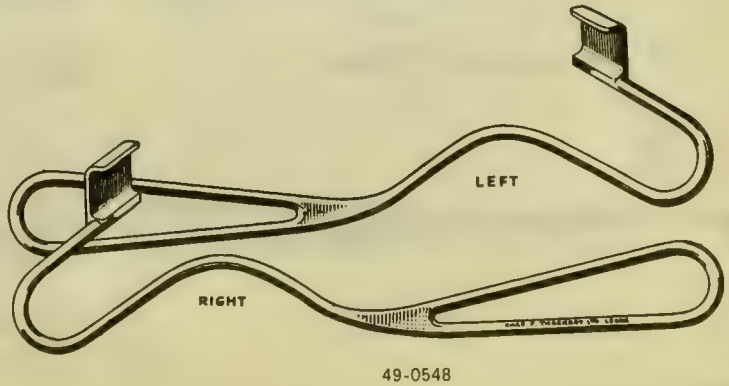
49-0542

49-0544
JOSEPH'S DOUBLE HOOK SKIN RETRACTORS, three sizes: 9 mm., 10 mm., 11 mm. wide, stainless steel.

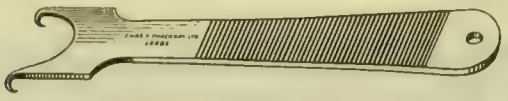


49-0544

49-0548
KILLEY'S THIRD MANDIBULAR MOLAR RETRACTORS, stainless steel; two patterns: right and left.

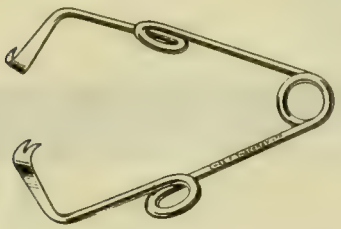


49-0548



49-0552

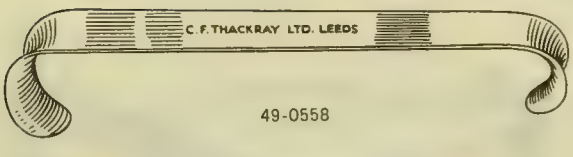
49-0552
KILNER'S ALAE RETRACTORS, two sizes: ¾ in. and ½ in. (9.5 and 12.7 mm.) wide, stainless steel.



49-0556

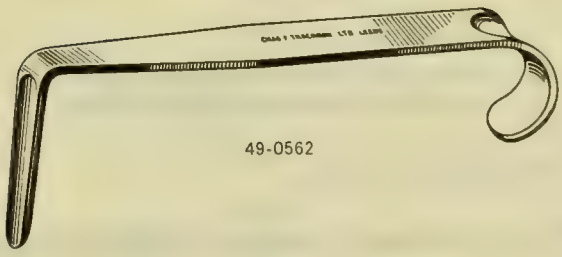
49-0556
KILNER'S APICOECTOMY RETRACTOR, spring pattern, stainless steel.

Also useful as a superficial skin retractor.



49-0558

49-0558
KILNER'S RETRACTORS, double-ended, two sizes: small and large: 1 in. tapering to ⅞ in. (25.4, 22.2 mm.) wide and 1⅜ in. tapering to 1⅛ in. (34.9, 28.5 mm.) wide, stainless steel.



49-0562

49-0562
KILNER'S NASAL RETRACTOR, stainless steel.



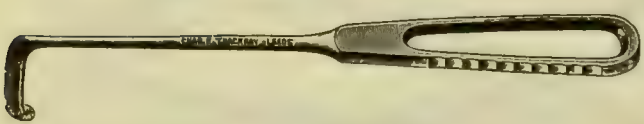
49-0564

49-0564
KILNER'S SKIN HOOK, with detachable hook, roughened handle, stainless steel.



49-0566

49-0566
HOOKS for above, stainless steel.

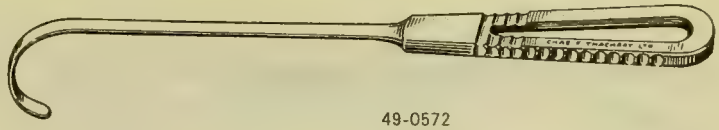


49-0568

49-0568
LANGENBECK'S RETRACTOR, with blade ¾ in. deep by ¼ in. wide (22.2 x 6.3 mm.) stainless steel.

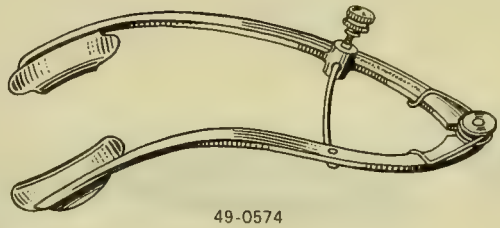
49-0570
LANGENBECK'S RETRACTOR, as above, but with blade 1¾ in. deep by ¼ in. wide (44.4 x 12.7 mm.).

49-0572
LANGENBECK'S RETRACTOR, with curved blade 1¼ in. deep by ¼ in. wide (31.7 x 6.3 mm.), stainless steel.



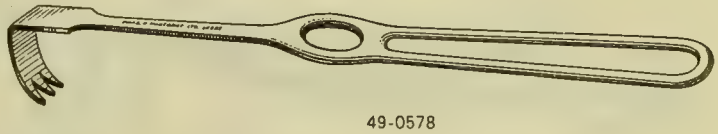
49-0572

49-0574
LANG'S EYE SPECULUM, with solid blades, two patterns: right and left, gilt.



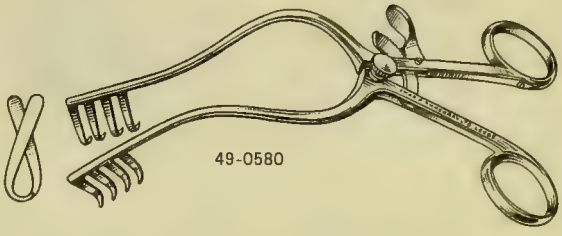
49-0574

49-0578
McINDOE'S RETRACTOR, tempero-mandibular, stainless steel.



49-0578

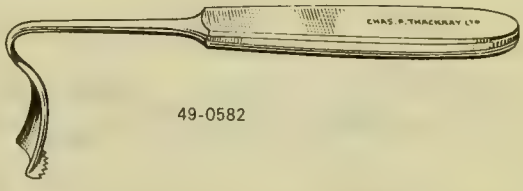
49-0580
MOLLISON'S MASTOID RETRACTOR, sharp prongs, with cam-ratchet, stainless steel.



49-0580

49-0582
TISSUE RETRACTOR, with concave, serrated edged blade, stainless steel in chromium plated handle.

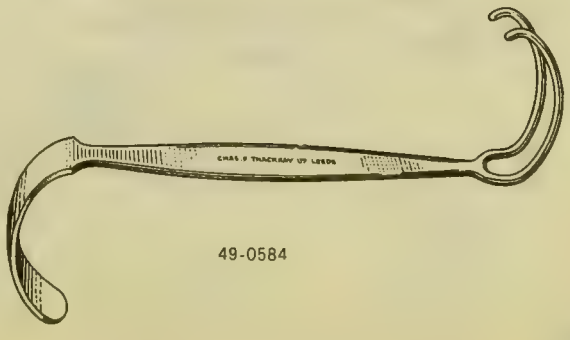
For use in retraction of a small muco-periosteal flap. F. Taylor Monks, F.D.S., R.C.S.



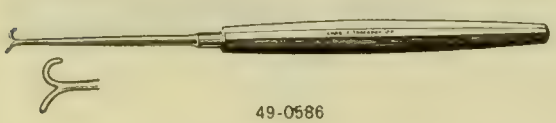
49-0582

49-0584
READ'S RETRACTOR, double-ended, stainless steel.

The solid blade is used to retract cheek and protect angle of mouth. Also to hold back gum flaps on buccal aspect, or in 3rd molar, cyst and other flap operations. The blunt-hooked end is used to retract tissues and facilitate access and instrumentation.



49-0584

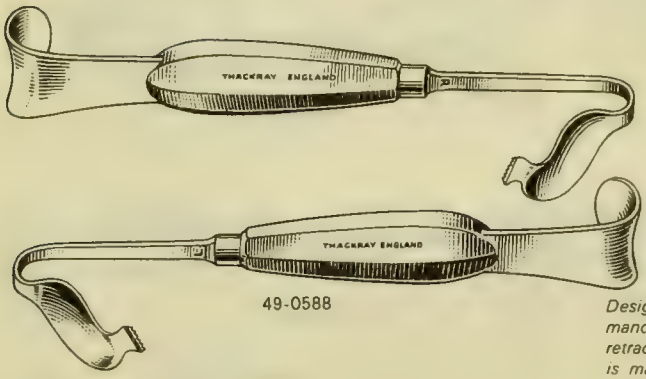


49-0586

49-0586
ROWE'S "BOAT-HOOK" RETRACTOR, stainless steel in chromium plated handle.

Designed for the manipulation of rubber bands inside the mouth.

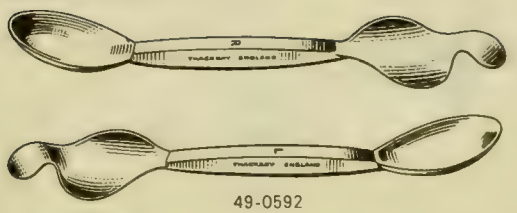
Vide:
"Fractures of the Facial Skeleton" by N. L. Rowe and H. C. Killey, page 109 *(E. and S. Livingstone Ltd., Edinburgh,* 1955).



49-0588

49-0588
ROWE'S BUCCAL FLAP RETRACTORS, double ended, two patterns: right and left, stainless steel, in chromium plated handle.

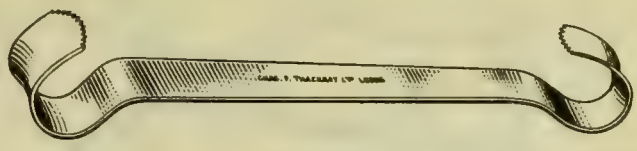
Designed for use in the removal of an impacted mandibular third molar tooth. A simple cheek retractor at one end for use when the initial incision is made and later when the sutures are inserted. The other end is for retracting the flap, having the anterior edge cut away to eliminate obstruction to a chisel or burr, with the distal corner of the serrated edge notched to enable the retractor to be stabilised on the external oblique line of the mandible. A highly polished concave surface to reflect light on to the operative field, and a narrow rounded shaft curving round the corner of the mouth to minimise the risk of splitting the tissues under tension. Separate instruments for the right and left sides are necessary.



49-0592

49-0592
ROWE'S LINGUAL FLAP RETRACTORS, (Modified Hovell's pattern) double ended, two patterns: right and left, stainless steel, in chromium plated handle.

For the protection of the lingual nerve during the removal of an impacted mandibular third molar tooth when the lingual plate bone-splitting technique is employed. When removing a lower right third molar tooth, for example, the lingual muco-periosteum is reflected from the bone, and the small rounded extremity is inserted between the bone and the flap so that the concave surface faces the bone, and the concave surface of the larger portion simultaneously retracts the tongue. There is a simple tongue retractor at the other end for use at the commencement and conclusion of the operation. Separate instruments for each side are required which, used in conjunction with the buccal flap retractors, give a good exposure of the operative field.



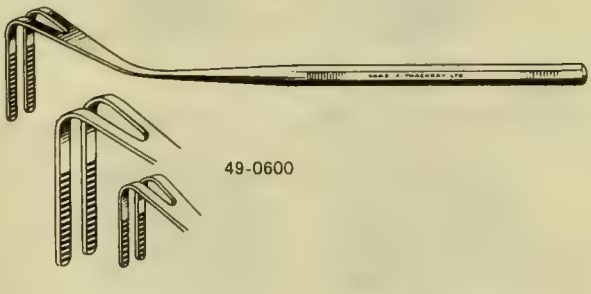
49-0596

49-0596
ROWE'S MAXILLARY LABIAL FLAP RETRACTOR, double ended, with serrated edged blades, stainless steel.



49-0598

49-0598
SKIN RETRACTOR, double-ended, stainless steel.

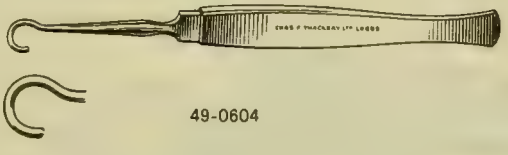


49-0600

49-0600
STACK'S RETRACTOR, large size, 5½ in. long with blades 1 in. deep (139.7 x 25.4 mm.), stainless steel.

49-0602
STACK'S RETRACTOR, as above, but small size, 5½ in. long with blades ½ in. deep (139.7 x 12.7 mm.).

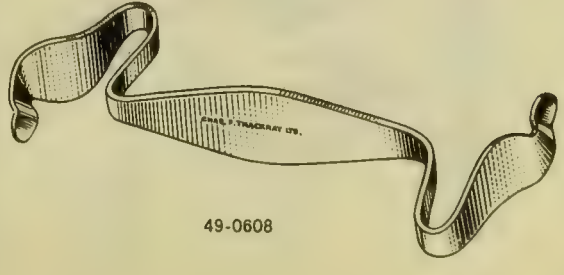
For full details of use, please request copy of Thackray Catalogue Supplement No. 2.



49-0604

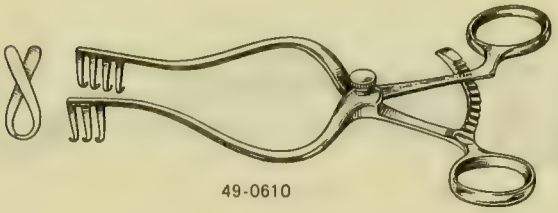
49-0604
TRACHEAL HOOK, single, blunt, stainless steel.

49-0606
TRACHEAL HOOK, as above, but with sharp point.



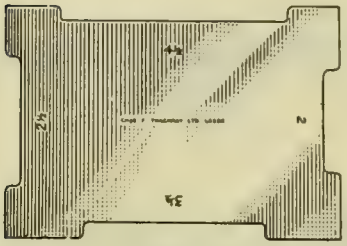
49-0608

49-0608
WARD'S WISDOM TOOTH RETRACTOR, double ended, stainless steel.



49-0610

49-0610
WEST'S MASTOID RETRACTOR, sharp prongs, stainless steel.

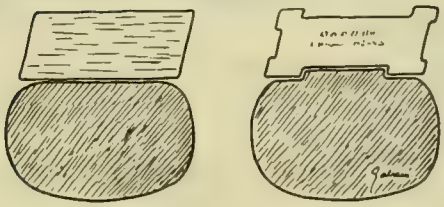


49-0620

49-0620
GABARRO'S GRAFT BOARD, for cutting skin grafts of definite widths: 2 in., 2½ in., 3½ in. and 4½ in. wide (50.8, 63.5, 88.9, 114.3 mm.), stainless steel.

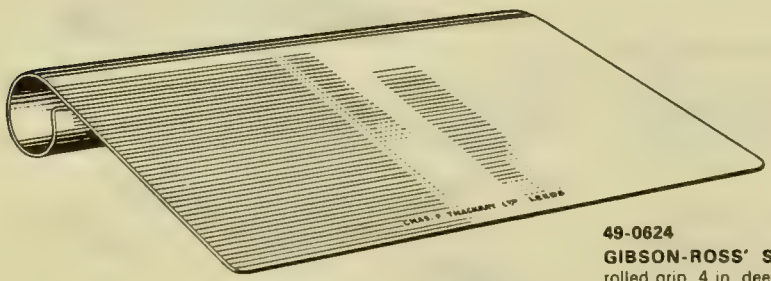
(a) Flat surface obtained with the ordinary wooden board applied to a limb. The width of the graft depends on width of donor area.

(b) Surface obtained with the new board applied to same limb. There is a flattened salient of a definite width which is independent of width of donor area.



(a) (b)

49-0622
GRAFT BOARD, plain wood board, bevelled edge, 7⅞ in. by 3⅞ in. (200 x 99.2 mm.).



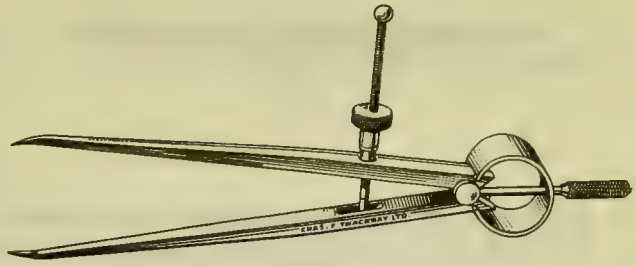
49-0624

49-0624
GIBSON-ROSS' SKIN GRAFT BOARD, with rolled grip, 4 in. deep by 7 in. wide (101.6 x 177.8 mm.) stainless steel.

49-0626
GIBSON-ROSS' SKIN GRAFT BOARD, as above, but 4 in. deep by 5 in. wide (101.6 x 127 mm.)

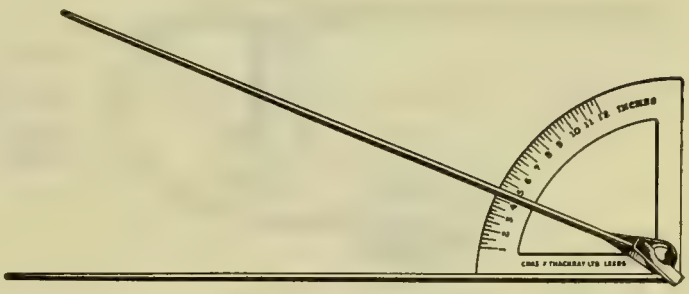
49-0628
GIBSON-ROSS' SKIN GRAFT BOARD, as above, but 4 in. deep by 4 in. wide (101.6 x 101.6 mm.)

49-0638
CALIPER, opening to 6 in. (152 mm.), chromium plated.



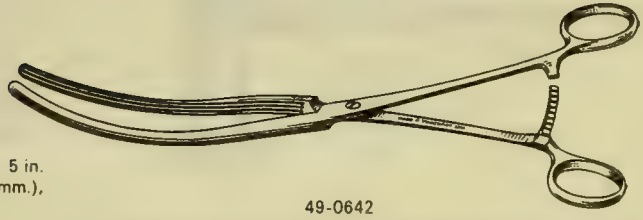
49-0638

49-0640
GILLIES' CALIPERS, chromium plated.
For use in breast reduction.



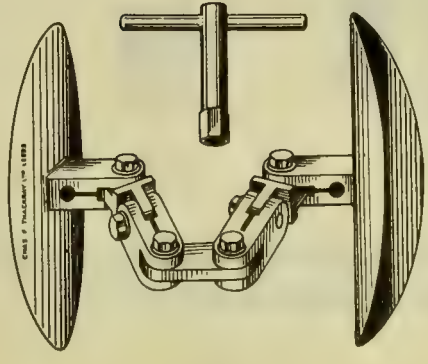
49-0640

49-0642
KOCHER'S CLAMP FORCEPS, curved 5 in. (127 mm.) blades, screw joint, 10 in. (254 mm.), stainless steel.
For use in breast reduction.



49-0642

49-0646
MATTHEWS' CROSS-LEG CLAMP, for incorporation in Plaster of Paris when fixing the legs, after inserting a cross-leg flap, nickel plated.



49-0646

PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



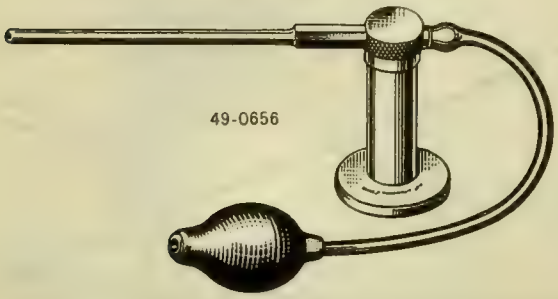
49-0648

49-0648
WATSON CHEYNE'S DISSECTOR-PROBE, 7 in. (177.8 mm.), stainless steel.



49-0650

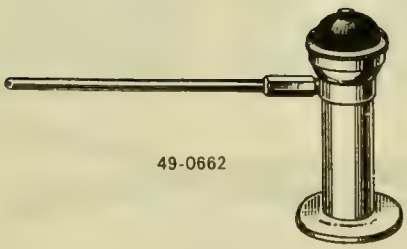
49-0650
MACDONALD'S DISSECTOR, 7½ in. (190.5 mm.) stainless steel.



49-0656

49-0656
"R.A.F. PATTERN" INSUFFLATOR, chromium plated container and tube, with rubber bulb.

49-0660
RUBBER BULBS for above.



49-0662

49-0662
ONE-HANDED INSUFFLATOR (modified "R.A.F. Pattern") consisting of: chromium plated container and tube with rubber thumb-press top to container.

49-0666
RUBBER TOPS for above.



49-0670



49-0672

49-0670
COTTON WOOL HOLDER, chromium plated.

49-0672
GLASS WELL, assorted colours.



49-0676

49-0676
RULE, 6 in. (152 mm.), graduated in centimetres and inches, stainless steel.

49-0678
RULE, as above, but 12 in. (304 mm.)

49-0682
DENTAL MIRROR, glass, boilable, four sizes: 14 mm., 18 mm., 22 mm. and 24 mm. (Standard: 22 mm.) chromium plated handle and stem.



49-0682



49-0688
MAPPING PEN, with reversible holder for nib, chromium plated.

49-0688

49-0690
NIBS, for above.

49-0692
PROBE, with eye, sizes: 5 in., 6 in., 7 in., 8 in., 9 in., 10 in. and 12 in., (127, 152, 177.8, 203, 228.6, 254, 304 mm.), silver.



49-0692

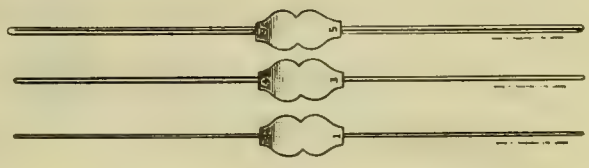
49-0700
BOWMAN'S LACHRYMAL PROBES, set of four, silver plated.

Used for probing the Salivary Ducts.



49-0700

49-0706
LIEBREICH'S LACHRYMAL PROBES, set of three, silver.



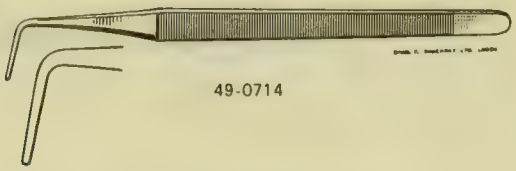
49-0706

49-0710
NETTLESHIP'S CANALICULUS DILATOR, silver plated.



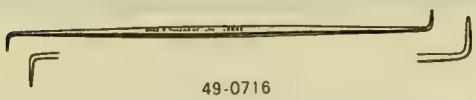
49-0710

PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



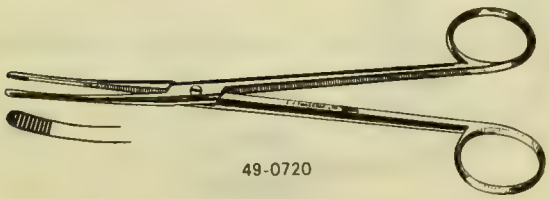
49-0714

49-0714
READ'S modified MOON'S PROBE, 6½ in., (164.7 mm.) with ⅝ in. (16 mm.) probe-end, stainless steel.
For exploring sockets, sinuses, antral fistulae, etc.



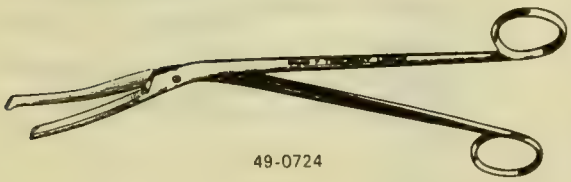
49-0716

49-0716
WALLIS' DENTAL PROBE, double-ended, stainless steel.



49-0720

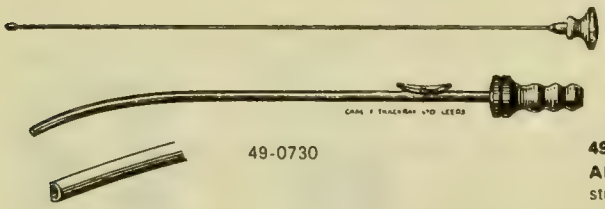
49-0720
SINUS FORCEPS, curved-on-flat, screw joint, 7 in. (177.8 mm.), stainless steel.



49-0724

49-0724
CHEATLE'S STERILIZER FORCEPS, screw joint, 10½ in. (266.7 mm.), stainless steel.

49-0726
CHEATLE'S STERILIZER FORCEPS, as above, but with box joint.



49-0730

49-0730
AMERICAN PATTERN SUCTION TUBE, with stilette, chromium plated.



49-0732

49-0732
MAGILL'S SUCTION TUBES, three sizes: 1, 2 and 3, chromium plated.

49-0738
MAGILL'S SUCTION TUBES, as above but **insulated** from distal edge of finger rest to tip.

49-0744
DENTAL CAVITY SYRINGE, curved pipe, chromium plated, with rubber bulb.

49-0748
DENTAL CAVITY SYRINGE, as above, but with straight pipe.



49-0744

49-0752
TONGUE DEPRESSOR, wood, 6 in. long, ¾ in wide (152 mm. by 19 m.m.), in boxes of a hundred.



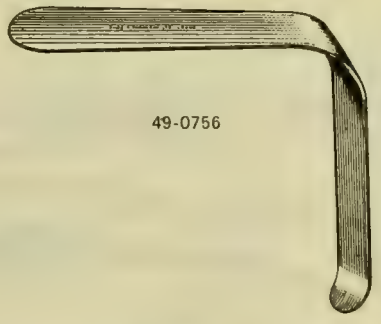
49-0752

49-0754
TONGUE DEPRESSOR, tapered width, stainless steel.



49-0754

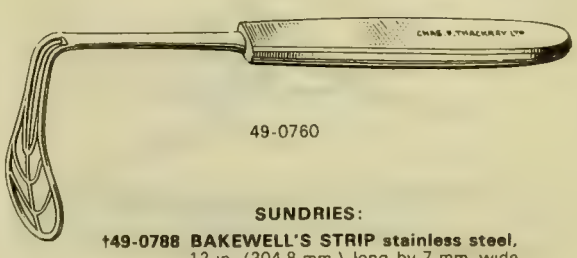
49-0756
LACK'S TONGUE DEPRESSOR, two sizes: adults' and children's, stainless steel.



49-0756

49-0760
TONGUE DEPRESSOR, stainless steel, in chromium plated handle.

For depressing the tongue and for retraction of a large muco-periosteal flap.
F. Taylor Monks, F.D.S., R.C.S.



49-0760

SUNDRIES:

49-0764 **ELEPHANT EAR SPONGES.**

49-0766 **SYNTHETIC CELLULAR SPONGES,** three sizes: small, medium and large.

49-0772 **MASTISOL,** in bottles.

49-0774 **BONNEY'S BLUE,** 10 oz. bottles.

49-0776 **BRUSHES** for MASTISOL.

49-0778 **BLACK GUTTA PERCHA,** 6 in. by 4 in. by ¼ in. thick. (152 x 101.6 x 6.3 mm.).

49-0780 **STENT'S COMPOSITION.**

49-0784 **SHEET LEAD,** ⅛ in. thick, size 8 in. by 6 in. (1.5 x 203 x 152 mm.).
For Fisk's Splintage in hand operations.

49-0786 **SHEET LEAD,** as above, but ⅛ in. thick, size 13 in. by 14 in. (1.5 x 330.2 x 355.6 mm.).

SUNDRIES:

†**49-0788** **BAKEWELL'S STRIP stainless steel,** 12 in. (304.8 mm.) long by 7 mm. wide by 20 S.W.G.
For use in Maxillo-Facial Surgery.

49-0790 **CUPRO-NICKEL SCREWS,** 6 B.A., thread, with flat head, size 2 mm. thread length.

49-0792 **CUPRO-NICKEL SCREWS,** as above, with 3 mm. thread length.
For Maxillo-Facial splinting.

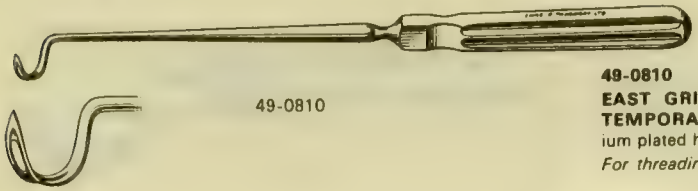
†**49-0794** **SHERMAN'S BONE SCREWS,** coarse thread, for use with above, ⅜ in. (9.5 mm.) long, stainless steel.

49-0796 **MORSE TYPE TWIST DRILL,** high speed, for drilling holes in strip, ⅛ in. (3.9 mm.) diameter.

49-0798 **MORSE TYPE TWIST DRILL,** for cutting the counter sink, ¼ in. (6.3 mm.) diameter.

†*Made of Austenitic grade of Stainless Steel, British Standard Specification EN 58J.*

PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-0810

49-0810
EAST GRINSTEAD PATTERN FASCIA-LATA TEMPORALIS NEEDLE, stainless steel in chromium plated handle.
For threading fascia through the temporal muscle.



49-0812

49-0812
FASCIA-LATA NEEDLE, stainless steel needle and hook in aluminium handle.



49-0814

49-0814
HOLDSWORTH'S CLEFT PALATE NEEDLE, acute curve, stainless steel.



49-0816

49-0816
HOLDSWORTH'S CLEFT PALATE NEEDLE, as above, but with gentle curve.



49-0818

49-0818
REVERDIN'S NEEDLE, curved, long pattern, stainless steel.



49-0820

49-0820
REVERDIN'S NEEDLE, as above, but curved, short pattern.



49-0822

49-0822
REVERDIN'S NEEDLE, as above, but Jalaguier pattern.



49-0824

49-0824
SHEEHAN'S FASCIA-LATA NEEDLE, acute curve, stainless steel in chromium plated handle.



49-0826

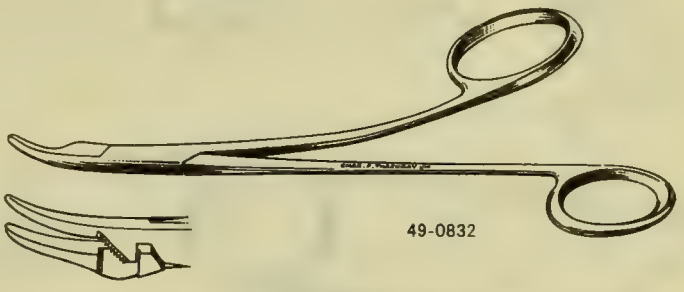
49-0826
SHEEHAN'S FACIA-LATA NEEDLE, as above, but with gentle curve.

49-0830
WRIGHT'S FASCIA NEEDLE, curved, stainless steel.
Designed for use in the operation for Ptosis.



49-0830

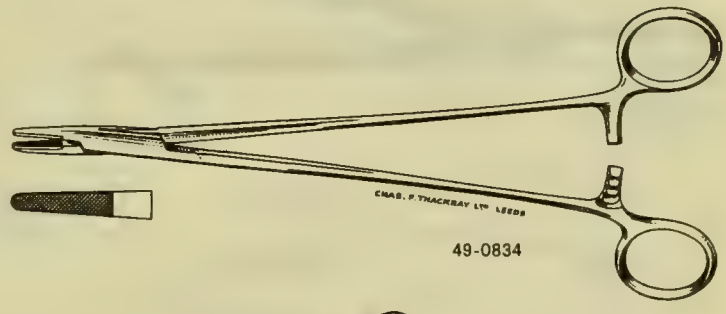
49-0832
BARRON'S NEEDLE HOLDER with LIGATURE CUTTER, combined, 6½ in. (158.3 mm.), stainless steel.


49-0832

49-0834
DEBAKEY'S NEEDLE HOLDER, lightweight, with Tungsten Carbide faced jaws, box joint, 9 in. (228.6 mm.), stainless steel.

49-0836
DEBAKEY'S NEEDLE HOLDER, as above, but 7 in. (177.8 mm.).

Particularly suitable for fine, delicate suturing.



49-0834

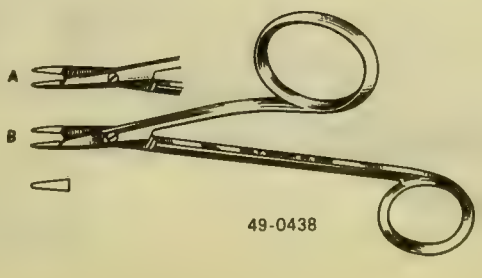
49-0838
EMMETT'S NEEDLE HOLDER, screw joint, 4½ in. (114.3 mm.), stainless steel.

Particularly designed with high leverage, so that only light pressure with finger tips on the bows will hold securely all types of fine needles.


49-0838

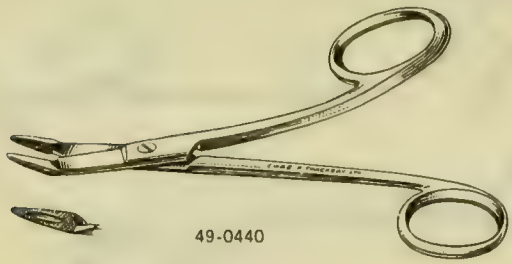
49-0436
FOSTER'S NEEDLE HOLDER only (A), straight jaws, 4½ in. (107.9 mm.), stainless steel.

49-0438
FOSTER'S SCISSORS and NEEDLE HOLDER, combined (B) straight jaws, 4½ in. (107.9 mm.) stainless steel.



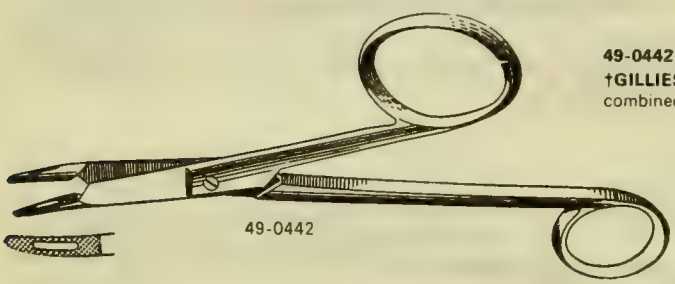
49-0438

PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-0440

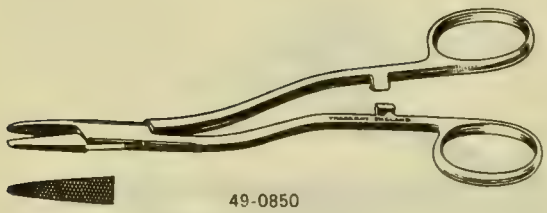
49-0440
†FOSTER'S SCISSORS and NEEDLE HOLDER, combined original pattern, curved jaws, 5½ in. (133.3 mm.), stainless steel.



49-0442

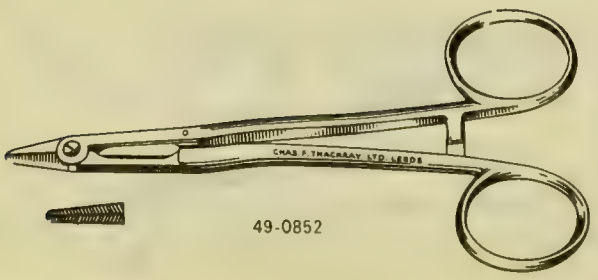
49-0442
†GILLIES' SCISSORS and NEEDLE HOLDER, combined, 6¼ in. (158.3 mm.), stainless steel.

49-0444
†GILLIES' SCISSORS and NEEDLE HOLDER, as above, but without fenestration in jaw, and *with Tungsten Carbide faced jaws.*



49-0850

49-0850
KILNER'S NEEDLE HOLDER, simple pattern, box joint, 5½ in. (133.3 mm.), stainless steel.



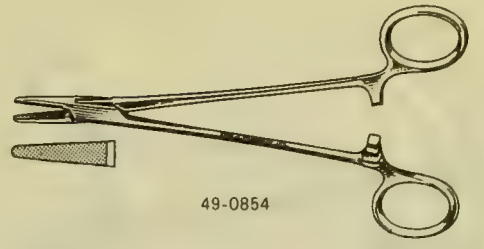
49-0852

49-0852
KILNER'S NEEDLE HOLDER, latest pattern, multiple joints, 5½ in. (133.3 mm.), stainless steel.

The jaws of this instrument are in two sections and have a light spring action to grip fine needles and suture material firmly without damage.

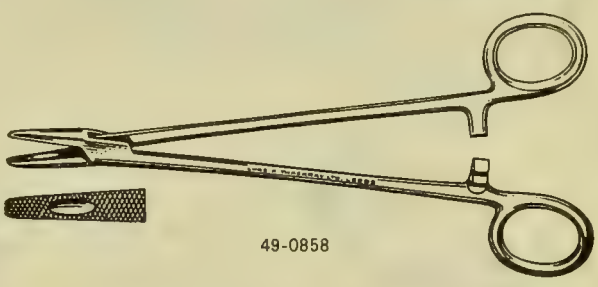
†Can also be made for left hand use.

49-0854
LAWRANCE'S NEEDLE HOLDER, lightweight, box joint, with fine jaws faced with Tungsten Carbide, 8 in. (152 mm.), stainless steel.
For full details of use please request copy of Thackray Catalogue Supplement No. 10.

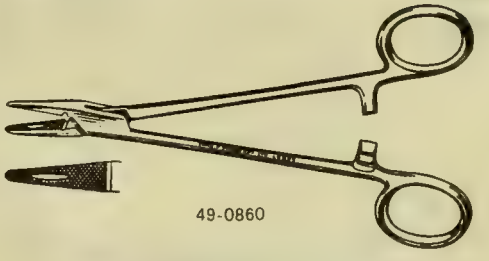

49-0854

49-0856
LAWRANCE'S NEEDLE HOLDER, as above, but **without** Tungsten Carbide facing on jaws.

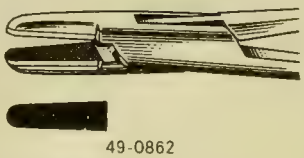
49-0858
MAYO'S NEEDLE HOLDER, box joint, 7½ in. (190.5 mm.), stainless steel.


49-0858

49-0860
MAYO'S NEEDLE HOLDER, light weight pattern, box joint, 6 in. (152 mm.), stainless steel.

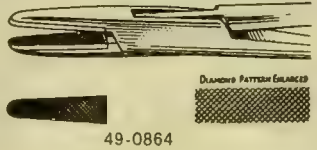

49-0860

49-0862
MAYO'S NEEDLE HOLDER, box-joint, 7½ in. (190.5 mm.), stainless steel, *with Tungsten Carbide faced jaws.*


49-0862

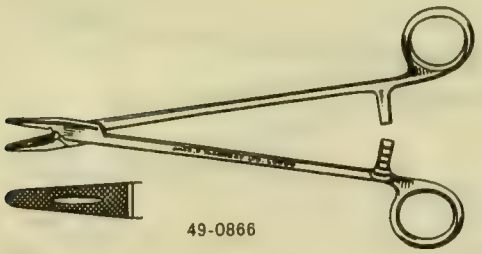
49-0864
MAYO'S NEEDLE HOLDER, as above, but light weight pattern, 6 in. (152 mm.).

Note: The Tungsten Carbide facings on the jaws of these needle holders provide extremely hard finely-serrated surfaces which minimise rotation of the suture needle and ensure a positive grip. Other patterns of needle holders can be similarly treated—details on request.



49-0864

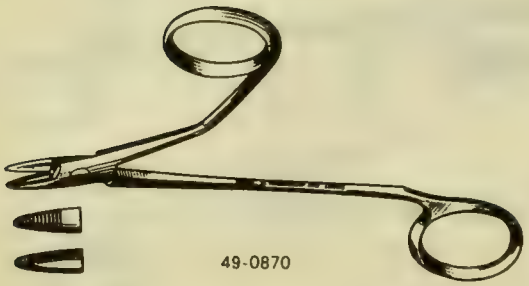
PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-0866

49-0866
MAYO'S NEEDLE HOLDER, box joint, 9 in. (228.6 mm.) stainless steel.

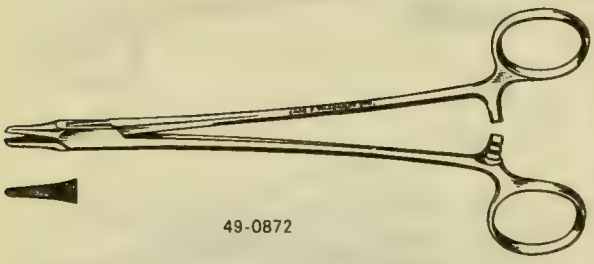
49-0868
MAYO'S NEEDLE HOLDER, as above, but *with Tungsten Carbide faced jaws.*



49-0870

49-0870
MUSTARDÉ'S NEEDLE HOLDER, with one concave and one convex jaw, 5¼ in. (133.3 mm.), stainless steel.

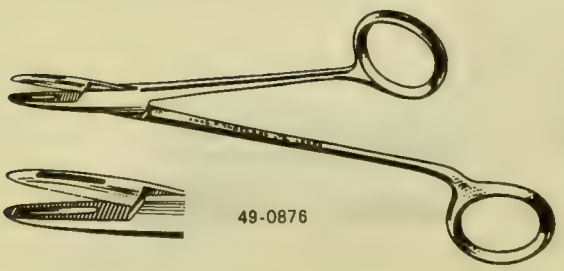
The opposing short-action concave and convex jaws allow the needle to be held rigidly in an upright position and avoid breakages. The off-set grip provides complete control of the instrument, especially for fine suturing.—J. C. Mustardé, F.R.C.S.



49-0872

49-0872
POTTS'-MAYO'S NEEDLE HOLDER, with fine jaws, box joint, 7½ in. (190.5 mm.), stainless steel.

49-0874
POTTS'-MAYO'S NEEDLE HOLDER, as above, but *with Tungsten Carbide faced jaws.*



49-0876

49-0876
WARD'S NEEDLE HOLDER, box joint, 7 in. (177.8 mm.), stainless steel.

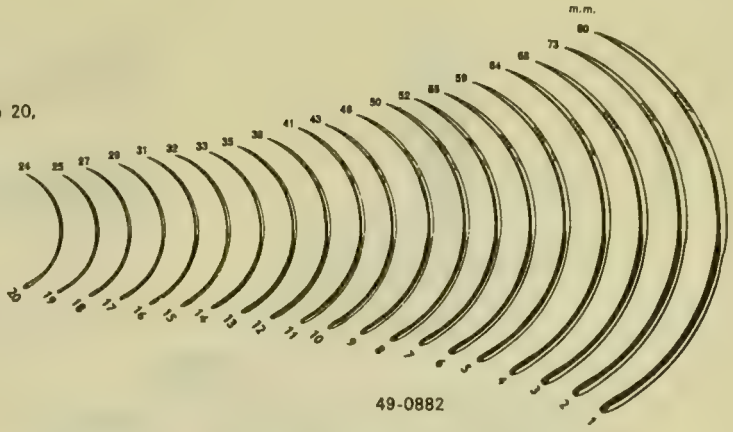
Can also be made for left hand use.

49-0882
SUTURE NEEDLES, standard strength triangular points (cutting), curved, twenty sizes: 1 to 20, (24mm.to 80mm.)in packets of six of a size, **carbon steel.**

49-0884
SUTURE NEEDLES, as above, but **fine.**

49-0886
SUTURE NEEDLES, as above, but standard strength, **stainless steel.**

49-0888
SUTURE NEEDLES, as above, but **fine.**



49-0882

49-0890
SUTURE NEEDLES, eye, curved, sizes: 1 to 6, (16 to 33 mm.) in packets of six of a size, **carbon steel.**

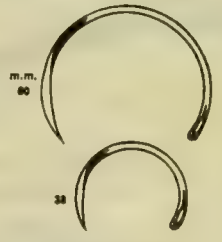
49-0892
SUTURE NEEDLES, as above, but **stainless steel.**



49-0890

49-0894
DENIS BROWNE'S SUTURE NEEDLES, triangular points, 1½ in. and 2½ in. (38.1 and 60.3 mm.), in packets of six of a size, **carbon steel.**

49-0896
DENIS BROWNE'S SUTURE NEEDLES, as above, but 25 mm., **carbon steel.**



49-0894



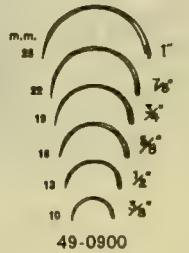
49-0896

49-0898
OLDFIELD'S CLEFT PALATE SUTURE NEEDLES, triangular points, 19 mm., in packets of six of a size, **carbon steel.**



49-0898

49-0900
LANE'S CLEFT PALATE SUTURE NEEDLES, half circle, six sizes: ⅜ in. to 1 in. (9.5 to 25.4 mm.), in packets of six of a size, **carbon steel.**



49-0900

49-0902
LANE'S SUTURE NEEDLES, curved, four sizes: 1 to 4, (13 to 27 mm.), in packets of six of a size, **carbon steel.**

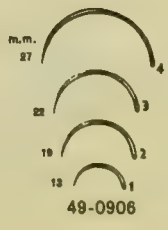
49-0904
LANE'S SUTURE NEEDLES, as above, but **stainless steel.**



49-0902

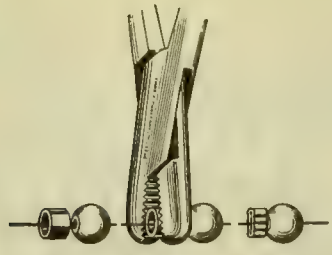
49-0906
LANE'S SUTURE NEEDLES, half circle, four sizes: 1 to 4 (13 to 27 mm.), in packets of six of a size, **carbon steel.**

49-0908
LANE'S SUTURE NEEDLES, as above, but **stainless steel.**



49-0906

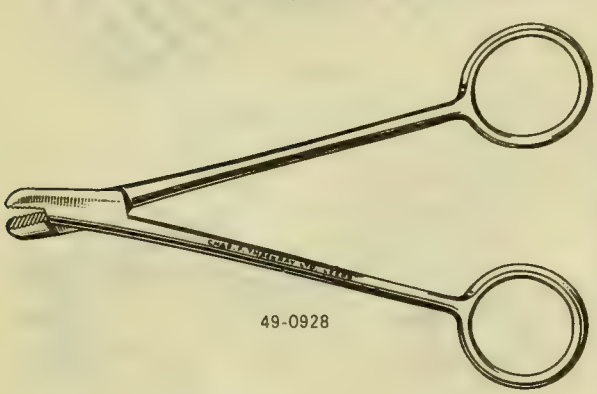
PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-0920

49-0920
DENIS BROWNE'S COLLARS, aluminium for 'Double Stop' Sutures.

49-0924
DENIS BROWNE'S BEADS, glass, for above.



49-0928

49-0928
DENIS BROWNE'S CLAMPING FORCEPS, for 'Double Stop' Suture Collars, box joint, 5¾ in. (146 mm.), stainless steel.

The aluminium collars are crushed on to the suture material and hold the glass beads firmly in position next to the skin. They are particularly useful in hypospadia operations in which ordinary sutures may cut through the delicate skin. For removal the sutures are cut between bead and collar, thus avoiding contact with the skin.



49-0954



49-0954
SUTURE WIRE, annealed stainless steel, **single strand,** sizes: 18 to 47 S.W.G. 1 oz. (31.1 gr) on a reel.

49-0990
SUTURE WIRE, as above but **twisted** sizes: 18 to 40 S.W.G. overall diameter 3.6 m. (12 ft.) on reels.

49-1018
SUTURE WIRE, as above but **braided,** sizes: 18 to 40 S.W.G. overall diameter 3.6 m. (12 ft.) on reels.

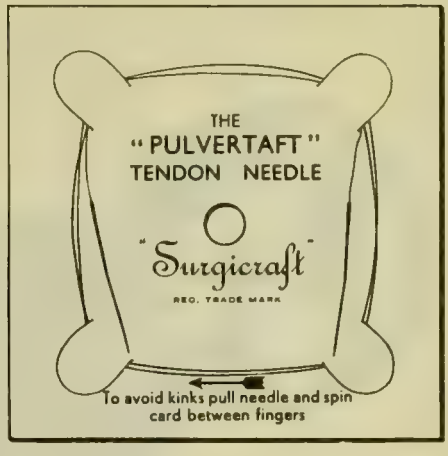
S.W.G.—Standard Wire Gauge.

CONVERSION TABLE FOR S.S. SUTURE WIRE

S.W.G. Overall	B.P.C. Size	Overall Diameter		S.W.G. Overall	B.P.C. Size	Overall Diameter		S.W.G. Overall	B.P.C. Size	Overall Diameter	
		ins.	mm.			ins.	mm.			ins.	mm.
18		.048	1.2	29	0	.0136	.345	39	5–0	.0052	.132
20		.036	.9	30	2–0	.0124	.315	40	5–0	.0048	.121
21		.032	.813	31	2–0	.0116	.294	**Single**	**Strand**	**Only**	
22		.028	.711	32	2–0	.0108	.274	41	5–0	.0044	.112
23		.024	.610	33	3–0	.0100	.254	42	5–0	.0040	.101
24	2	.022	.559	34	3–0	.0092	.233	43	6–0	.0036	091
25	2	.020	.508	35	3–0	.0084	.213	44	6–0	.0032	081
26	1	.018	.457	36	4–0	.0076	.193	45	6–0	.0028	071
27	1	.0164	.416	37	4–0	.0068	.172	46	6–0	.0024	061
28	0	.0148	.375	38	4–0	.0060	.152	47	7–0	.0020	.050

49-0942
PULVERTAFT'S TENDON SUTURE, consisting of a 46 cm. (18 in.) length of stainless steel wire, 40 S.W.G., swaged-on to a No. 18 stainless steel suture needle at each end, **straight,** triangular point, mounted single on card.

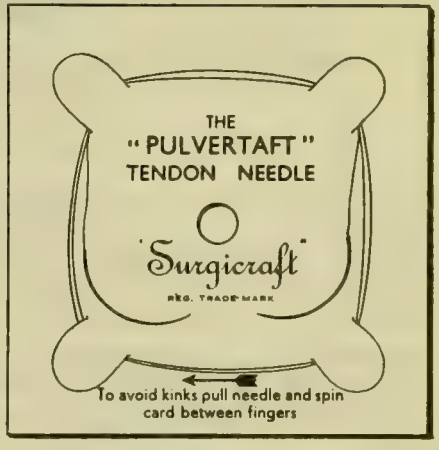
49-0944
PULVERTAFT'S TENDON SUTURE, as above but in cartons containing twelve cards.



49-0942

49-0946
PULVERTAFT'S TENDON SUTURE, as above but with **curved** needles mounted single on card.

49-0948
PULVERTAFT'S TENDON SUTURE, as above but in cartons containing twelve cards.



49-0946

49-0934
PLASTASUTES, boilable, special fine black Nylon on No. 3 Eyeless Eye Curved Suture Needle sterile, in hermetically sealed glass tubes in cartons of twelve tubes.

49-0936
PLASTASUTES as above but on No. 6 Needle.

49-0938
SILK, black braided (non-capillary and serum proof), 22.8 m (25 yards) on spool, sizes: 5/0, 4/0, 3/0, 2/0, 1/0, 1, 2 U.S.P. (approx. British Catgut sizes)

49-0940
TERYLENE, black or white braided (non-capillary and serum proof), high breaking strain, 22.8 m. (25 yards) on spool, sizes: 5/0-2.



49-0934



49-1046

49-1046

DAVIS & GECK FLEXON SUTURES in SURGILOPE STRIP PACK

Description

FLEXON is a new multistrand wire suture constructed from extremely fine, soft-tempered stainless steel filaments.

Advantages

FLEXON STAINLESS STEEL SUTURES have many advantages when compared with other suture materials. Multistrand construction provides maximum flexibility. Sutures handle like silk, do not tend to kink, and are highly resistant to fragmentation and work-hardening.

The unusual degree of handling ease, marked by an absence of stiffness facilitates suturing and tying. Knots may be tied square and ends cut close, without danger of slipping or irritating. Comparative tensile strength tests show that a given size of Flexon equals or surpasses the next larger size of silk, cotton and catgut. Sutures are inert as well as non-corrosive and non-magnetic.

Uses

FLEXON STAINLESS STEEL SUTURES may be used wherever non-absorbable sutures are desirable. Because of their inertness, they are specially useful where tissue reaction must be avoided.

FLEXON SUTURES armed on drilled-end Atraumatic needles are available in sterile, dry Surgilope SP pack in cartons of one dozen.

IN CARTONS OF ONE DOZEN

Product No.	Suture Size	Needle Type	
12533–43	3–0 x 69 cm. (27")	26 mm. ⅜ circle reverse cutting C–6	▼
12533–53	2–0 x 69 cm. (27")	26 mm. ⅜ circle reverse cutting C–6	▼
12543–33	4–0 x 46 cm. (18")	19 mm. ⅜ circle reverse cutting CE–4	▼
12548–23	5–0 x 69 cm. (27")	20 mm. ½ circle round bodied T–16	●
12548–33	4–0 x 69 cm. (27")	20 mm. ½ circle round bodied T–16	●
12553–23	5–0 x 69 cm. (27")	25 mm. ½ circle round bodied T–5	●
12553–33	4–0 x 69 cm. (27")	25 mm. ½ circle round bodied T–5	●
12553–43	3–0 x 69 cm (27")	25 mm. ½ circle round bodied T–5	●
12562–43	3–0 x 46 cm. (18")	24 mm. ⅜ circle reverse cutting CE–6	▼
12562–53	2–0 x 46 cm. (18")	24 mm. ⅜ circle reverse cutting CE–6	▼
12564–53	2–0 x 46 cm. (18")	30 mm. ⅜ circle reverse cutting CE–10	▼
12564–63	0 x 46 cm. (18")	30 mm. ⅜ circle reverse cutting CE–10	▼
12570–33	4–0 x 69 cm. (27")	64 mm. straight cutting CS–1	
12570–43	3–0 x 69 cm. (27")	64 mm. straight cutting CS–1	
12570–53	2–0 x 69 cm. (27")	64 mm. straight cutting CS–1	

▼ denotes reverse cutting needle

New Tendon Sutures

Double armed Flexon Sutures 5-0 × 46 cm (18 in.) on 25 m.m. straight cutting needles (CS5).

Double armed Flexon Sutures 5-0 × 46 cm (18 in.) on 25 m.m. curved cutting needles (SCE6).

49-1050
DAVIS & GECK ANACAP BLACK BRAIDED SILK SUTURE BPC

Advantages

1 **Greater tensile strength** — The greater tensile strength of D & G surgical silk is the result of combining the finest raw silk materials with an improved braiding process which increases the density per unit diameter. This enables standards higher than those required by BPC to be routinely achieved.

2 **Absolutely non-capillary** — Silk in its untreated stage exhibits capillarity. **Anacap** Braided Silk Sutures are specially processed during manufacture to render them non-capillary and serum proof.

3 **Handling qualities** — D & G silk is noted for its excellent handling qualities.

4 **Continued strength after repeated sterilization** — The inherent strength in D & G silk permits you to sterilize **Anacap** silk as many as six times without any appreciable loss of strength.

5 **Economy of material** — There is no wastage with D & G surgical silk.

ANACAP black braided silk sutures BPC

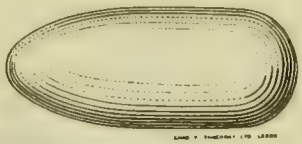
Product No.	Size	Length
11001–10	6–0	25 yds.*
11003–10	6–0	100 yds.
11001–20	5–0	25 yds.
11003–20	5–0	100 yds.
11001–30	4–0	25 yds.
11003–30	4–0	100 yds.
11001–40	000	25 yds.
11003–40	000	100 yds.
11001–50	00	25 yds.
11003–50	00	100 yds.
11001–60	0	25 yds.
11003–60	0	100 yds.
11001–70	1	25 yds.
11003–70	1	100 yds.
11001–80	2	25 yds.
11003–80	2	100 yds

(* 25 yards = 22.8 m., 100 yards = 91.2 m.)

49-1052 DAVIS & GECK BLACK BRAIDED SILK SUTURES BPC ATRAUMATIC NEEDLE — Silicone treated sterile in **SURGILOPE STRIP PACK**
IN CARTONS OF ONE DOZEN

Product No.	Suture Size	Needle Type	
11123–33 11123–43 11123–53 11123–63	4–0 x 76 cm (30") 3–0 x 76 cm (30") 2–0 x 76 cm (30") 0 x 76 cm (30")	25 mm. ⅜ circle round bodied T–5	 ●
11153–03 11153–13 11153–23	7–0 x 76 cm (30") 6–0 x 76 cm (30") 5–0 x 76 cm (30")	12 mm. ⅜ circle round bodied T E–1	 ●
11063–03 11063–13 11063–23 11063–33	7–0 x 46 cm (18") 6–0 x 46 cm (18") 5–0 x 46 cm (18") 4–0 x 46 cm (18")	12 mm. ⅜ circle cutting SCE–2	 ▲
11239–13 11239–23 11239–33	6–0 x 46 cm (18") 5–0 x 46 cm (18") 4–0 x 46 cm (18")	Double armed	 ▲
11083–13 11083–23 11083–33 11083–43 11083–53	6–0 x 46 cm (18") 5–0 x 46 cm (18") 4–0 x 46 cm (18") 3–0 x 46 cm (18") 2–0 x 46 cm (18")	16 mm. ⅜ circle cutting SCE–3	 ▲
11074–33	4–0 x 46 cm (18")	19 mm. ⅜ circle reverse cutting CE–4	 ▼
11076–43	3–0 x 46 cm (18")	24 mm. ⅜ circle reverse cutting CE–6	 ▼

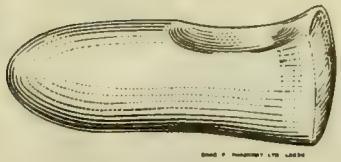
PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-1060

49-1060
McINDOE'S VAGINAL MOULD, acrylic plastic, for inlay graft, standard size.

For the treatment of congenital absence of vagina.

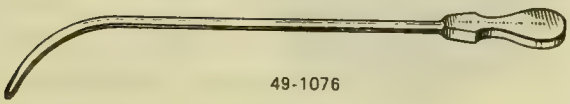


49-1062

49-1062
McINDOE'S VAGINAL DILATOR, acrylic plastic, standard size.

For the post-operative treatment of congenital absence of vagina.

NOTE — Special sizes can be made to order.



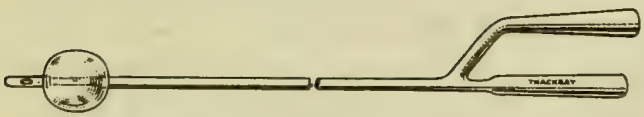
49-1076

49-1076
CLUTTON'S BOUGIE, tapered, twelve sizes: 6/10, 8/12, 10/14, 12/16, 14/18, 16/20, 18/22, 20/24, 22/26, 24/28, 26/30 and 28/32 stainless steel.

49-1092
CLUTTON'S BOUGIE, as above but set of twelve in polished wood case.

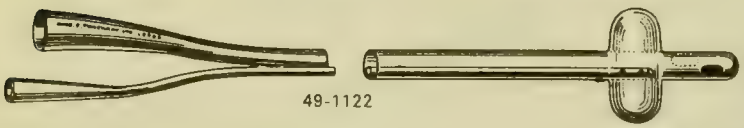
49-1098
ASHTON MILLER'S modified CLUTTON'S BOUGIE, for children, ten sizes: 4/8, 6/10, 8/12, 10/14, 12/16, 14/18, 16/20, 18/22, 20/24, and 22/26 stainless steel.

49-1110
ASHTON MILLER'S modified CLUTTON'S BOUGIE, as above but set of ten, in polished wood case.



49-1120

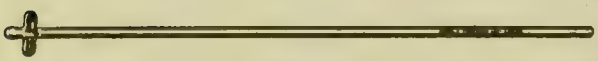
49-1120
FOLEY'S SELF-RETAINING CATHETER Paediatric, with 3 c.c. capacity bag and 2 eyes, red rubber, sizes 8 and 10 F.C.G.



49-1122

49-1122
FOLEY'S SELF-RETAINING CATHETER, adult, with 5 cc. capacity bag and 2 eyes, latex rubber, sizes 12, 14, 16, 18, 20, 22, 24, 26 28 & 30 F.C.G.

49-1124
FOLEY'S SELF RETAINING CATHETER, as above, but with 30 cc. capacity bag.



49-1126

49-1126
MALECOT'S CATHETER, self-retaining, with two-winged tip, soft rubber, size 6 E.C.G. (12 F.C.G.).

49-1132
CATHETER SPIGOTS, for above, small size, wood.

E.C.G.—English Catheter Gauge.

F.C.G.—French Catheter Gauge

49-1138
DENIS BROWNE'S INTRODUCER for AMBIC CATHETER, size 6 E.C.G. (12 F.C.G.), stainless steel in chromium plated handle.



49-1138

49-1144
DENIS BROWNE'S AMBIC CATHETERS, self retaining with two winged tip, sizes 6, 8 and 10 E.C.G. (12, 15 and 18 F.C.G.).



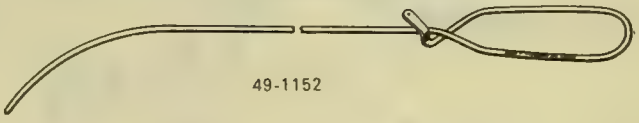
49-1144

49-1150
INTRODUCER, for Foley's Catheters, stainless steel.



49-1150

49-1152
INTRODUCER for Dowse's Catheters, stainless steel.



49-1152

49-1154
INTRODUCER for Malecot's and Pezzer's Catheters, two sizes: large and small, stainless steel



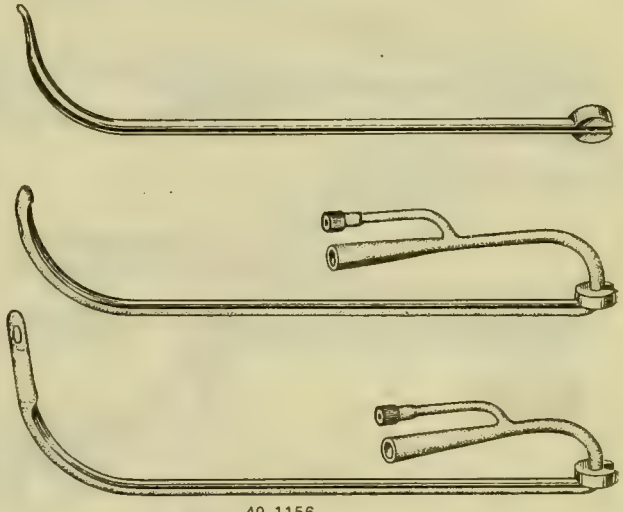
49-1154

49-1156
"MARYFIELD" PATTERN FOLEY'S CATHETER INTRODUCER, curved large for sizes 24 and 26 F.C.G. Catheters, stainless steel.

49-1158
"MARYFIELD" PATTERN FOLEY'S CATHETER INTRODUCER, as above but medium for sizes 16 and 18 F.C.G. Catheters.

"Reg. Design No. 917583".

E.C.G.—English Catheter Gauge.
F.C.G.—French Catheter Gauge.



49-1156

Mr. Walter Campbell, V.R.D., Ch.M., F.R.C.S., Eng., F.R.C.S., Ed., Consultant Surgeon at Maryfield Hospital, Dundee, and Mr. Gavin Douglas M.B. Ch.B. write—

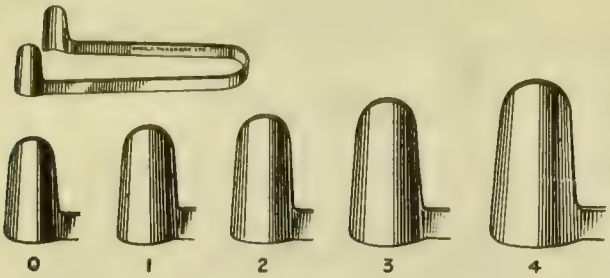
"For several years now we have been using a Foley's Catheter Introducer which we designed to allow a delicate "no touch" technique in the passage of this useful catheter.

"Essentially the introducer is a metal tube shaped like a bougie whose convex wall has been removed. The tip is offset and pointed for insertion in the terminal catheter aperture. The catheter lies in the deeply grooved convexity of the instrument and is fixed in slight tension at the proximal end. The whole unit is then like a rubber tyre in a wheel rim. The catheter can be mounted without being touched, and if only the proximal end of the carrier is held, it, and the catheter can be inserted into the bladder without either being soiled by the operator. Insertion is well controlled and usually easy. The bag of the catheter is then inflated and the carrier gently withdrawn leaving the catheter in situ.

"Preferably, and generally quite satisfactorily, the tip of the carrier can be inserted into a small hole made in the side of the catheter just proximal to the bag. When mounted, this produces a combination whose distal part is flexible. This has the advantages of good control and also the delicacy and flexibility of a soft rubber catheter.

"The instrument is equally suitable for males and females and we believe should always be used when passing these catheters, as by doing so there is less risk of injury and sepsis.

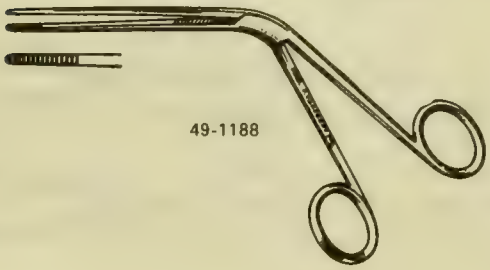
PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-1170

49-1170
THUDICHUM'S NASAL SPECULUM, five sizes: 0, 1, 2, 3 and 4, stainless steel.

49-1178
THUDICHUM'S NASAL SPECULUM, as above but **insulated** for diathermy.



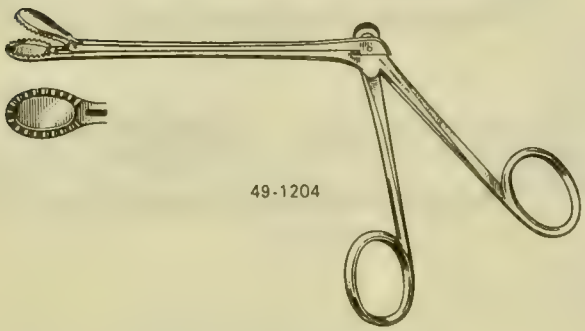
49-1188

49-1188
TILLEY'S NASAL DRESSING FORCEPS, with serrated jaws, box joint, stainless steel.



49-1196

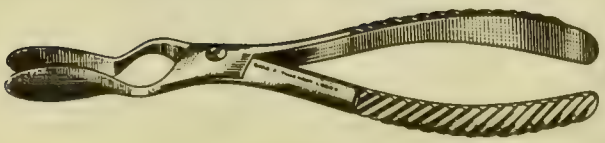
49-1196
BALLENGER'S NASAL SWIVEL KNIFE, two sizes: small and large, stainless steel in chromium plated handle.



49-1204

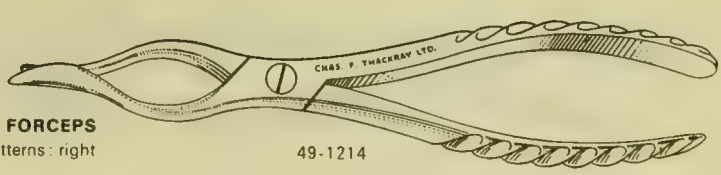
49-1204
WATSON WILLIAMS' NASAL POLYPI FORCEPS, with multiple toothed jaws, stainless steel.

49-1206
WATSON WILLIAMS' NASAL POLYPI FORCEPS, as above but non-toothed jaws.



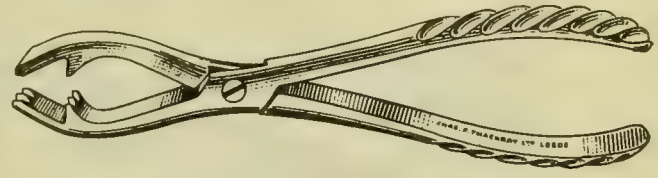
49-1212

49-1212
WALSHAM'S NASAL SEPTUM FORCEPS, screw joint, 7½ in. (190.5 mm.) stainless steel.
For straightening the septum.



49-1214

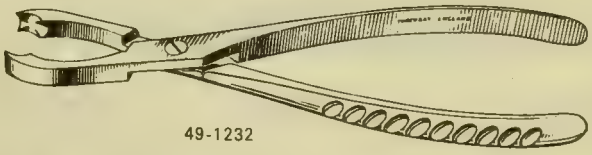
49-1214
WALSHAM'S NASAL REDRESSING FORCEPS screw joint, 9 in. (228.6 mm.), two patterns: right and left, stainless steel



49-1228

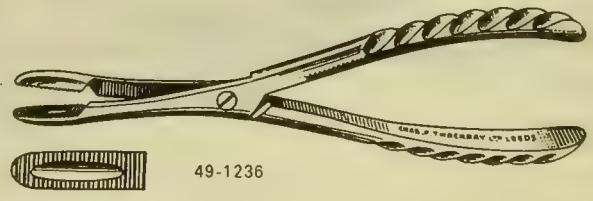
49-1226
FERGUSSON'S "LION" FORCEPS, screw joint, 6 in. (152 mm.), stainless steel.

49-1228
FERGUSSON'S "LION" FORCEPS, as above but 8 in. (203 mm.).



49-1232

49-1232
HARRISON'S BONE HOLDING FORCEPS, 7½ in. (190.5 mm.), stainless steel.



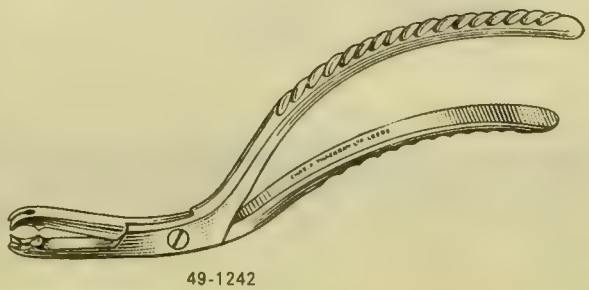
49-1236

49-1236
NECROSIS FORCEPS, straight, screw joint, 7½ in. (190.5 mm.), stainless steel.



49-1238

49-1238
NECROSIS FORCEPS, as above but angled laterally.



49-1242

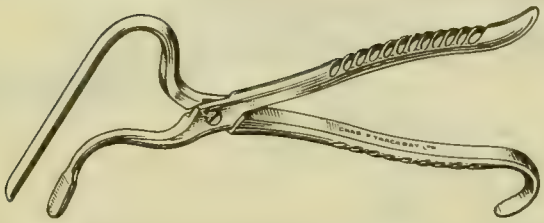
49-1242
ROWE'S modified HARRISON'S BONE HOLDING FORCEPS, screw joint, 7¼ in. (184.1 mm), stainless steel.

The handles have been modified so that they remain clear of the neck tissues during application to the mandible. Both blades are provided with a hole through which drilling of the bone may be effected. The blades are slotted to facilitate removal of forceps after wiring of the mandible.



49-1246

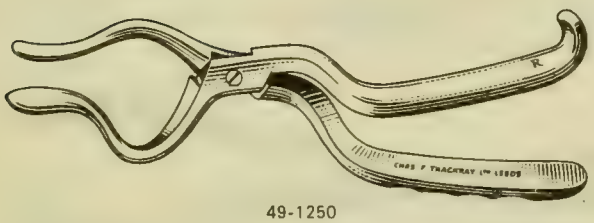
49-1246
HAYTON-WILLIAMS' FORWARD TRACTION and **REDUCTION MAXILLARY FRACTURE FORCEPS,** with "stop" screw on one shank, screw joint, 9¾ in. (247.6 mm), stainless steel.



49-1248

49-1248
HAYTON-WILLIAMS' DOWNWARD TRACTION MAXILLARY FRACTURE FORCEPS, screw-joint, 9 in. (228.6 mm), stainless steel.

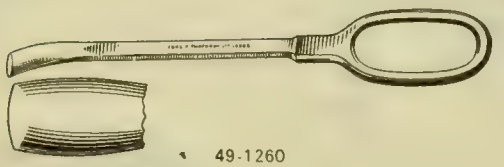
For full details of use, please request copy of Thackray Catalogue Supplement No. 6.



49-1250

49-1250
ROWE'S MAXILLARY DISIMPACTION FORCEPS, screw-joint, 9 in. (228.6 mm.) two patterns right and left, stainless steel.

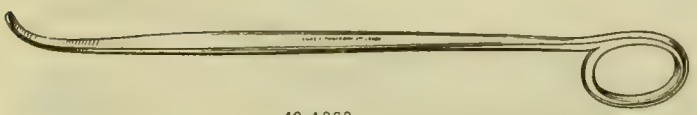
Used in pairs, right and left, the shanks of these forceps are cranked to permit correct positioning of the blades when the operator's hands are approximated.



49-1260

49-1260
BRISTOW'S BONE LEVER, for the malar bone, stainless steel.

Also used for elevating a fractured Zygomatic Bone.



49-1262

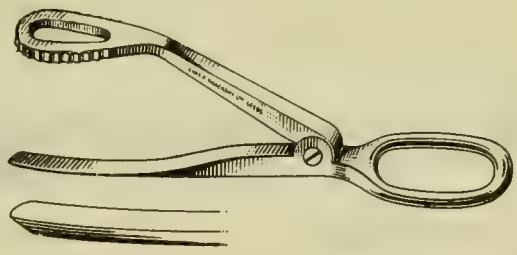
49-1262
LANE'S (or Trethowan's) BONE LEVER, ring handle, 8½ in. (215.9 mm.), stainless steel.

49-1264
MALAR ELEVATOR, stainless steel in chromium plated handle.
For elevating the zygomatic arch and malar bone by intra-oral approach.
F. Taylor Monks, F.D.S., R.C.S.



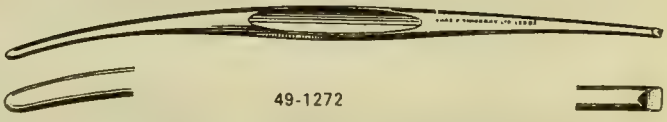
49-1264

49-1266
ROWE'S ZYGOMATIC BONE ELEVATOR, stainless steel.



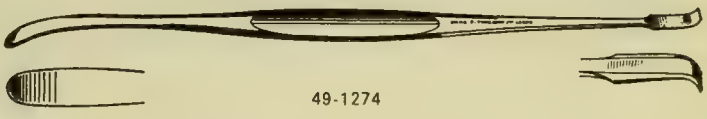
49-1266

49-1272
HILL'S NASAL RASPATORY, stainless steel.



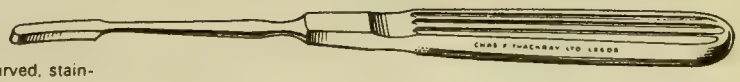
49-1272

49-1274
HOWARTH'S NASAL RASPATORY, stainless steel.



49-1274

49-1276
JOSEPH'S NASAL RASPATORY, curved, stainless steel in chromium plated handle



49-1276

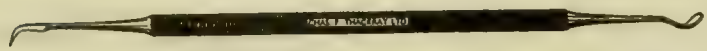
49-1278
JOSEPH'S NASAL RASPATORY, as above but straight.



49-1280
SEPTUM RASPATORY, fine, stainless steel in chromium plated handle.

49-1280

PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-1282

49-1282
CLEFT PALATE SHARP HOOK and **RASPATORY**, stainless steel.

R



L



49-1284

49-1284
CLEFT PALATE RASPATORIES, curved upwards, two patterns: right and left, stainless steel in chromium plated handle.

R

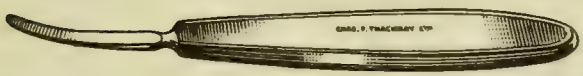


L



40-1288

49-1288
CLEFT PALATE RASPATORIES, curved downwards, two patterns: right and left, stainless steel in chromium plated handle.



49-1292

49-1292
CLEFT PALATE RASPATORIES, two patterns: curved up and curved down, stainless steel in chromium plated handle.



49-1296

49-1296
BARSKY'S CLEFT PALATE RASPATORY, double ended, stainless steel.



49-1298

49-1298
ELEVATOR, double-ended, angled right and left, stainless steel.

Used to start the separation of the nasal mucosal flaps from the bone of the hard palate.



49-1300

49-1300
ELEVATOR, double-ended, angled to side and on flat, stainless steel.

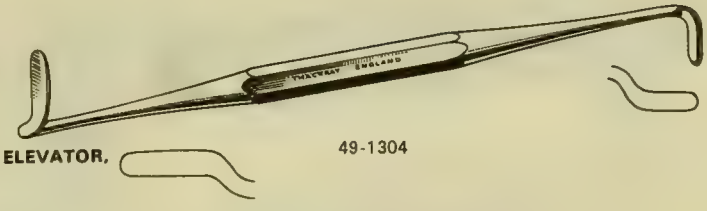
For elevation of buccal and nasal flaps.



49-1302

49-1302
ELEVATOR, double-ended, spoon shaped, stainless steel.

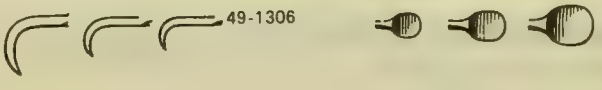
Used for mobilisation of the mucosal flaps from the floor and sides of the nose



49-1304

49-1304
BARSKY'S PHARYNGEAL FLAP ELEVATOR, double ended, stainless steel.





49-1306

49-1306
McINDOE'S CLEFT PALATE RASPATORIES, double-ended, three sizes: small, medium and large, stainless steel.

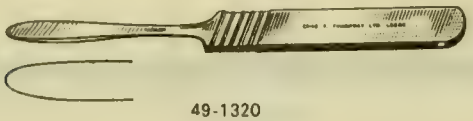


49-1312

49-1312
MITCHELL'S TRIMMER, double-ended, stainless steel.

For use in surgery of cleft palate.

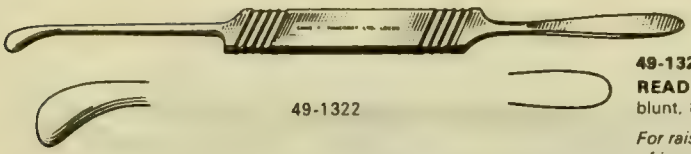
PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-1320

49-1320
READ'S PERIOSTEAL ELEVATOR, single-ended, blunt, 6 in. (152 mm.) stainless steel.

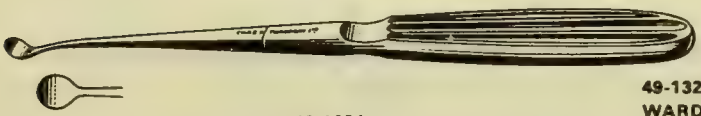
For elevating the gum in gingivectomy, for raising muco-periosteal flaps and for separating-off cyst walls from cyst cavities.



49-1322

49-1322
READ'S PERIOSTEAL ELEVATOR, double-ended blunt, 8¼ in. (215.9 mm.) stainless steel.

For raising gum flaps to expose bone (as in removal of impacted teeth roots, cysts, etc.). Blunt ends prevent laceration of tissues. One end being straight and the other curved enables application to all surfaces of jaw: the curved end is particularly useful as a retractor.



49-1324

49-1324
WARD'S PERIOSTEAL ELEVATOR, single ended, sharp, stainless steel in chromium plated handle.



49-1328

49-1328
DOYEN'S RIB RASPATORY, adults' size, curved to-left for right hand use, stainless steel in chromium plated handle.

49-1330
DOYEN'S RIB RASPATORY, adults' size, but curved-to-right for left hand use.

49-1332
DOYEN'S RIB RASPATORY, children's size, curved-to-left for right hand use, stainless steel in chromium plated handle.

49-1334
DOYEN'S RIB RASPATORY, children's size, but curved-to-right for left hand use.



49-1338

49-1338
FARABEUF'S RUGINE, with narrow curved blade ¼ in. wide, 6 in. long (6.3 x 152 mm.), stainless steel.



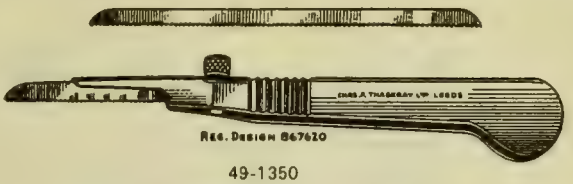
49-1340

49-1340
FARABEUF'S RUGINE, straight blade ⅛ in. wide, 6 in. long (11.1 x 152 mm.) stainless steel.

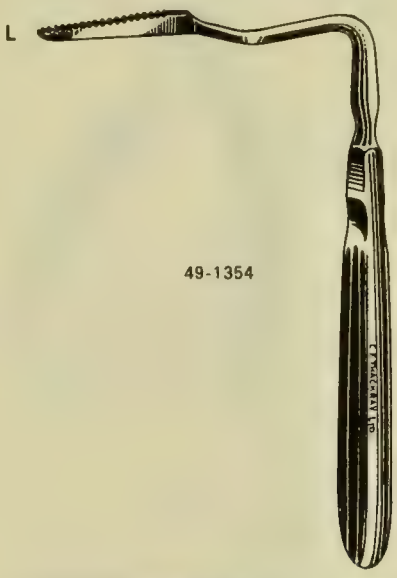
49-1342
FARABEUF'S RUGINE, as above but with curved blade.

49-1350
BODENHAM'S SURGICAL SAW, complete with one high-speed steel saw-blade, handle stainless steel.

49-1352
BLADES, high-speed steel.



49-1350



49-1354
JOSEPH'S NASAL SAW, angled, two patterns: right and left, stainless steel in chromium plated handle.

49-1354

49-1358
JOSEPH'S NASAL SAW, two patterns: left and right, stainless steel in chromium plated handle.

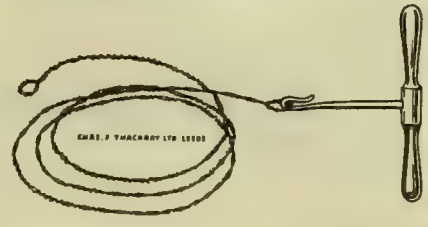


49-1362
JOSEPH'S NASAL SAW, as above but **straight.**

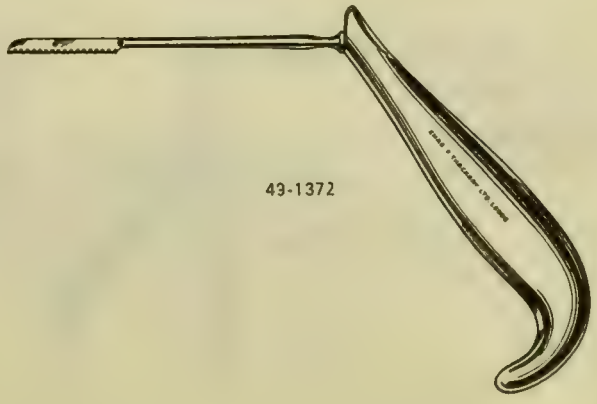
49-1358

49-1364
OLIVECRONA'S modified GIGLI'S SKULL SAW, unbreakable, three lengths: 30 cm., 50 cm. and 70 cm., stainless steel.

49-1370
HANDLES for above, used in pairs, chromium plated.



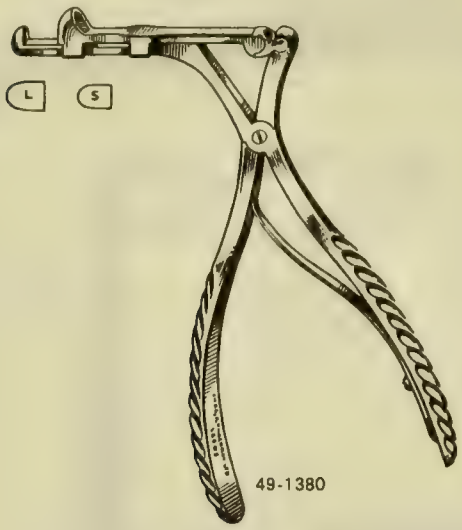
49-1364 49-1370



49-1372
MOWLEM'S NASAL SAW, stainless steel in chromium plated handle.

49-1372

PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-1380

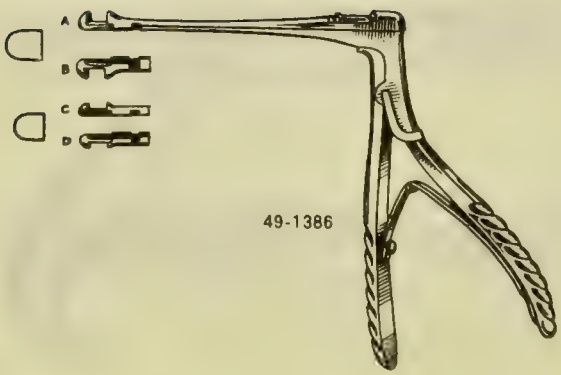
49-1380
CITELLI'S GOUGE FORCEPS, two sizes: large and small, stainless steel.



49-1384

49-1384
"GLASGOW PATTERN" NIBBLING FORCEPS, with double spring, screw joint, 5¾ in. (146 mm.) stainless steel

Convenient size for localised trimming of alveolus after extractions, etc. Narrow blades enable insertion into sockets for removal of septum. Easily manipulated.

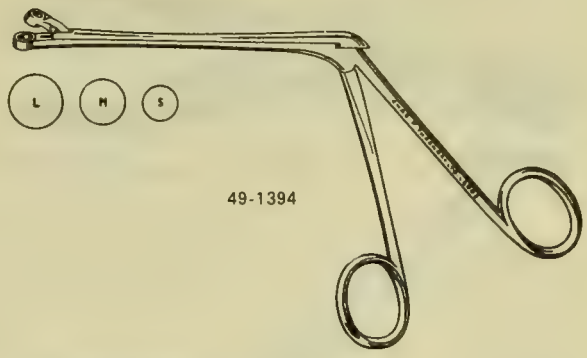


49-1386

49-1386
HAJEK'S SPHENOIDAL PUNCH FORCEPS, large size, two patterns: upward cutting (A) and downward cutting (B), stainless steel.

49-1390
HAJEK'S SPHENOIDAL PUNCH FORCEPS, as above, but small size, two patterns: upward cutting (C) and downward cutting (D).

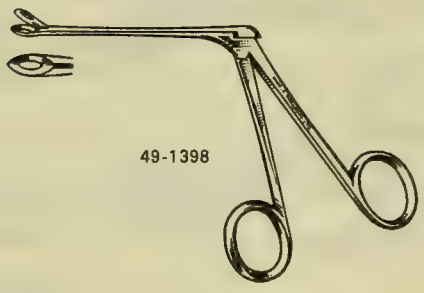
49-1394
HARTMANN'S NASAL CONCHOTOME, three sizes: small, medium and large, stainless steel.



49-1394

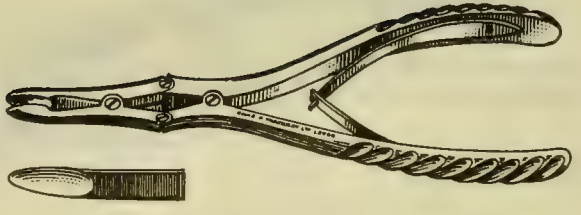
49-1398
HENCKEL'S AURAL FORCEPS, with fenestrated scoop jaws, crocodile action, stainless steel.

Used for recovering roots from the Antrum.



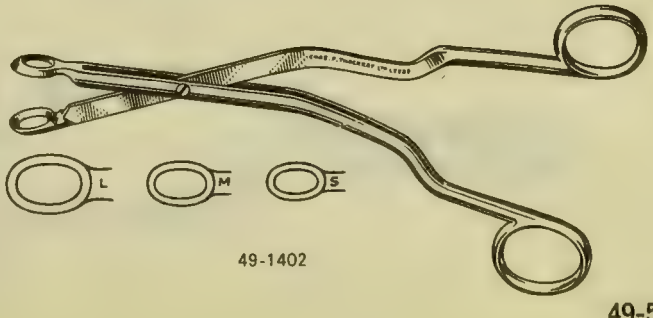
49-1398

49-1400
JANSEN'S (Luer's) GOUGE FORCEPS, multiple-action joints, 7½ in. (190.5 mm.), stainless steel.

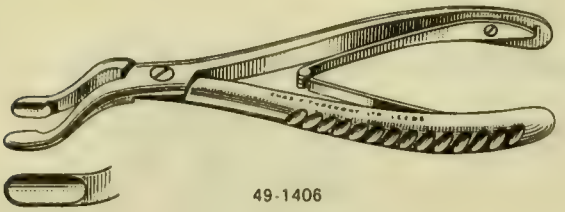


49-1400

49-1402
LUC'S NASAL CUTTING FORCEPS, cut-through joint, three sizes: small, medium and large, stainless steel.



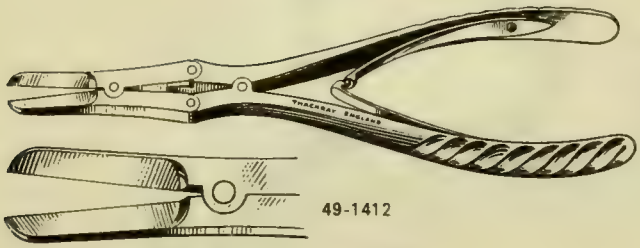
49-1402



49-1406

49-1406
READ'S modified JANSEN'S BONE NIBBLERS with double spring, circular joint, 7 in. (177.8 mm.), stainless steel.

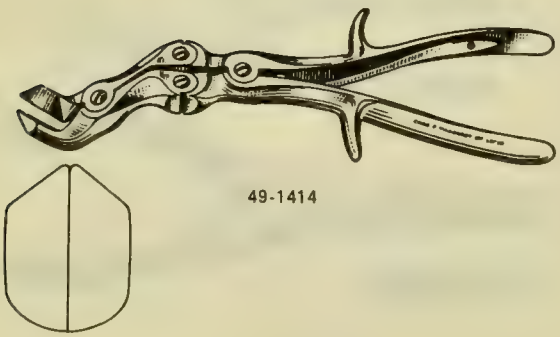
For excision of bone as in alveolectomy or trimming margin of bone after extractions, etc. Angulated blades enable application to sites in jaws not accessible to straight forceps.



49-1412

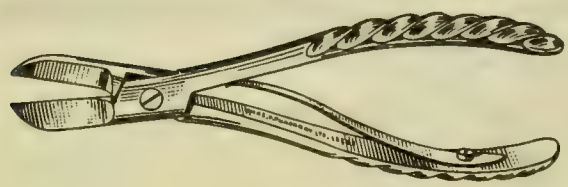
49-1412
ECKHOFF'S BONE CUTTING FORCEPS, straight, with double spring, multiple-action joints, 8 in. (203 mm.) stainless steel.

For the nasal hump.



49-1414

49-1414
KEY'S BONE CUTTING FORCEPS, multiple-action joints, light pattern, 9 in. (228.6 mm.), stainless steel.



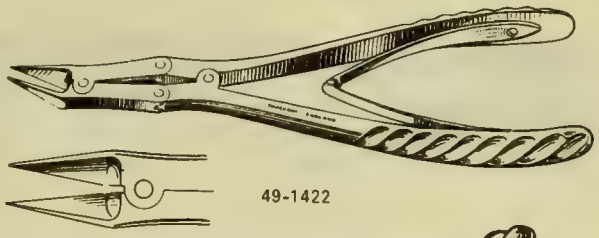
49-1418

49-1416
LISTON'S BONE-CUTTING FORCEPS, straight with spring, screw joint, 6 in. (152 mm.) stainless steel.

49-1418
LISTON'S BONE CUTTING FORCEPS, as above but 7 in. (177.8 mm.).

49-1420
LISTON'S BONE-CUTTING FORCEPS, as above but **angled-on-flat,** 8 in. (203 mm.)

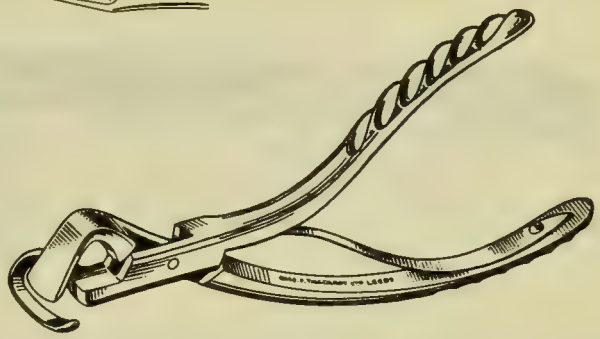
49-1422
McINDOE'S BONE CUTTING FORCEPS, angled -on-flat, with double spring, multiple-action, 7¼ in. (190.5 mm.) stainless steel.



49-1422

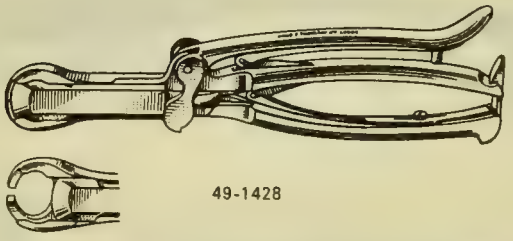
49-1426
DOYEN'S RIB SHEARS, take-off joint, 7¾ in. (196.8 mm.), stainless steel.

Used for taking Rib Grafts.



49-1426

49-1428
TUDOR EDWARDS' modified VEHMEHREN'S RIB SHEARS (Costotome), 9¼ in. (234.9 mm.) stainless steel.



49-1428



49-1440
BARSKY'S NASAL RASP, straight, reverse-cutting teeth, concave surface, stainless steel.

For use on the bony dorsum. The direction and design of teeth are such that dust accumulates in the rasp; this avoids particles being left in the wound

49-1440

49-1442
BARSKY'S GLABELLA RASP, as above, but curved, reverse-cutting teeth, concave surface, stainless steel.

The curve, direction and design of teeth facilitate use in the glabella region.



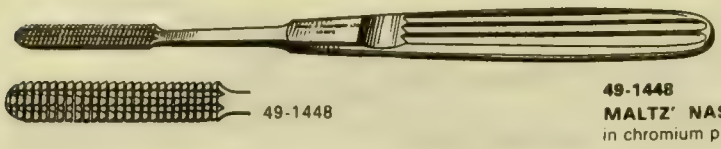
49-1442



49-1444
McINDOE'S NASAL RASP, straight reverse cutting teeth, stainless steel in chromium plated handle.

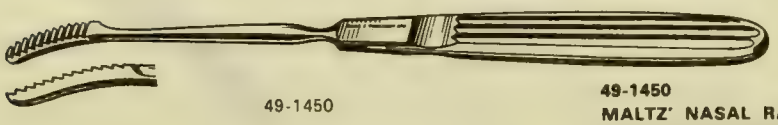
49-1444

PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-1448

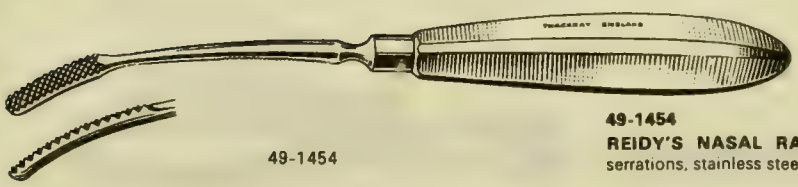
49-1448
MALTZ' NASAL RASP, straight, stainless steel in chromium plated handle.



49-1450

49-1450
MALTZ' NASAL RASP, curved, with deep-cut serrations, stainless steel in chromium plated handle.

49-1452
MALTZ' NASAL RASP, as above, but straight.



49-1454

49-1454
REIDY'S NASAL RASP, curved, with crossed serrations, stainless steel in chromium plated handle.



49-1460

49-1460
READ'S CURETTE, straight, double-ended, 7¾ in. (196.8 mm.) stainless steel.



49-1462

49-1462
READ'S CURETTE, small size, angulated double-ended, 8½ in. (215.9 mm.), stainless steel.



49-1464

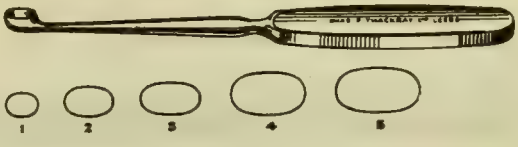
49-1464
READ'S CURETTE, as above, but large size

49-1466
READ'S SCOOP, 6½ in. ((164.7 mm.), stainless steel in chromium plated handle.



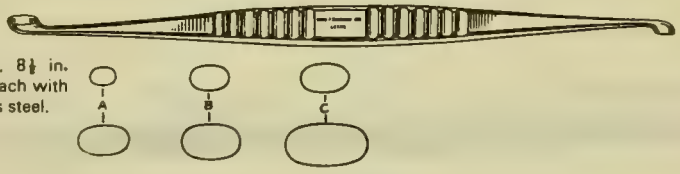
49-1466

49-1468
VOLKMANN'S SCOOP, 6½ in. (164.7 mm.), five sizes: 1, 2, 3, 4 and 5, stainless steel,



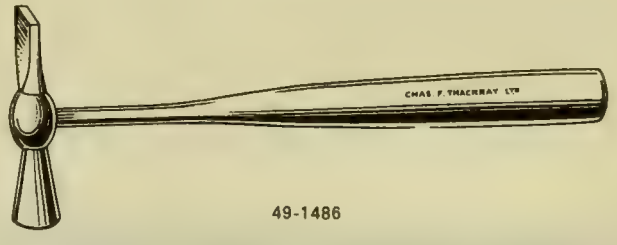
49-1468

49-1476
VOLKMANN'S SCOOP, double-ended, 8½ in. (215.9 mm.), three models : A, B, and C, each with a different size scoop at each end, stainless steel.



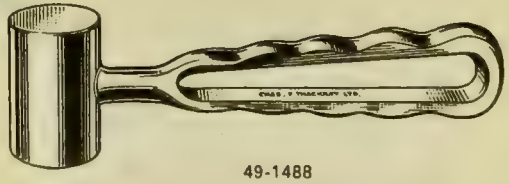
49-1476

49-1486
HAMMER for HAND SURGERY, solid brass, dull chromium plated.



49-1486

49-1488
HEATH'S MALLET, 18 oz., (559.8 grm) diameter of head: 1⅜ in. (34.9 mm.) solid copper, silver plated.

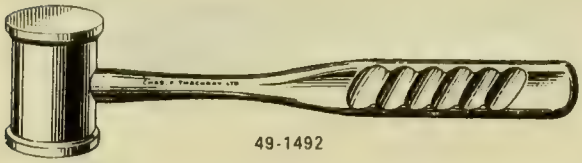


49-1488

49-1490
MALLET, small, with tapered head of solid copper, in chromium plated handle.



49-1490



49-1492

49-1492
MALLET, ¾ lb. (373.2 grm.), diameter of head 1⅜ in. (34.9 mm.), solid stainless steel.



49-1500

49-1500
BARSKY'S NASAL OSTEOTOME, 12 mm wide, stainless steel.



49-1502

49-1502
FRENCH PATTERN OSTEOTOME, four sizes: 5 mm., 7 mm., 9 mm. and 11 mm. wide, stainless steel.



49-1508

49-1508
MANCHESTER'S NASAL HAND-OSTEOTOME large size, 13 mm. wide with 12 mm. cutting edge, stainless steel.

49-1510
MANCHESTER'S NASAL HAND-OSTEOTOME small size, 12 mm. wide with 11 mm. cutting edge, stainless steel.

Those surgeons who use osteotomes to remove the nasal hump are well aware of the tendency of these chisel instruments to cut in deeper and deeper as the cut proceeds. They have also noticed the difficulty of keeping the cut absolutely horizontal. This present instrument has been designed to overcome these failings. The blade is slender and is really an osteotome rather than a chisel. The tendency to cut deeper is therefore much less. The big hemispherical handle allows firm pressure to be applied by the palm but also provides sufficient grip to resist any tendency for the chisel to undergo torsion to the right or to the left. It is thus possible to control the cut with great accuracy.

After detaching the soft tissues from the nasal bridge the line of section is noted and the first part of the incision through the cartilaginous vault is made with a scalpel. The chisel is then inserted under direct vision and of course immediately engages the bony part of the vault. Firm pressure is applied and the chisel is moved very slightly from side to side as the pressure is kept on. A very clean and controlled removal of the hump is thus made possible.

The slightly bevelled edges effectively prevent the chisel from damaging the overlying soft tissues.

W. MANCHESTER, F.R.C.S.

49-1512
MATTHEWS' OSTEOTOME, 11 mm. wide (cutting edge), stainless steel.

Used in nasal reduction to cut the nasal bones from the septum; the flange protects the overlying skin.



49-1512

***49-1516**
READ'S OSTEOTOME, with serrated head, 7 in. (177.8 mm.), two sizes: 4 mm. and 5 mm. wide, tungsten steel plated.



49-1516

49-1522
SMITH-PETERSEN'S OSTEOTOME, straight, 8 in. (203 mm.) five sizes: ⅜ in., ½ in., ¾ in., 1 in. and 1½ in. wide (9.5, 12.7, 19, 25.4, 31.7 mm), stainless steel.

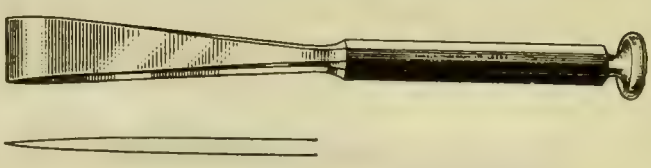
***49-1528**
SMITH-PETERSEN'S OSTEOTOME, as above, but tungsten steel plated.



49-1522

49-1534
SWEDISH PATTERN OSTEOTOME, 8 in. (203 mm.), five sizes: ⅜ in., ½ in., ¾ in., 1 in. and 1½ in. wide (9.5, 12.7 19, 25.4, 31.7 mm.), stainless steel.

***49-1540**
SWEDISH PATTERN OSTEOTOME, as above, but tungsten steel plated.



49-1534



***49-1546**
WARD'S NASAL OSTEOTOME, two sizes: 3 mm. and 5 mm., tungsten steel plated.

49-1546

**Tungsten steel instruments now hard chromium plated*



49-1554

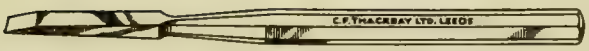
49-1554
BRAITHWAITE'S NASAL CHISEL, with 5 mm. wide cutting edge, two patterns A and B, stainless steel.

49-1558
BRAITHWAITE'S NASAL CHISEL, as above, but 5 mm. wide, without guard on side of chisel edge.



49-1560

49-1560
FRENCH PATTERN CHISEL, four sizes: 5 mm., 7 mm., 9 mm., and 11 mm. wide, stainless steel.



49-1566

49-1566
JENKINS' CHISEL, six sizes: 2 mm., 4 mm., 6 mm., 8 mm., 10 mm. and 12 mm., stainless steel.



49-1574

49-1574
MACEWEN'S CHISEL, 7½ in., (190.5 mm.) five sizes: ½ in., ¾ in., ¾ in., 1 in. and 1¼ in. wide (9.5, 12.7, 19, 25.4 and 31.7 mm.), stainless steel.

***49-1580**
MACEWEN'S CHISEL, as above, but tungsten steel plated.



49-1586

49-1586
McINDOE'S NASAL CHISEL, four sizes: 9 mm., 11 mm., 13 mm. and 15. mm. wide, stainless steel



49-1592

49-1592
McINDOE'S NASAL CHISEL, four sizes: 9 mm. 11 mm., 13 mm., and 15 mm. wide, with mushroom head for use by hand, stainless steel.

**Tungsten steel instruments now hard chromium plated.*

***49-1598**
READ'S CHISEL, with serrated head, 7 in. (177.8 mm.) long, four sizes: 2 mm., 3 mm., 4 mm. and 5 mm. wide, tungsten steel plated.



49-1598

***49-1604**
READ'S HAND-CHISEL, 6 in. (152 mm.) long, four sizes: 2 mm., 3 mm., 4 mm. and 5 mm. wide, tungsten steel in chromium plated handle.

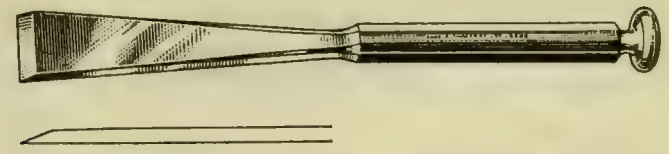


49-1604

***49-1610**
READ'S HAND-CHISEL, contra-curve, 6 in. (152 mm.) long, two sizes: 4 mm. and 5 mm. wide, tungsten steel in chromium plated handle.



49-1610



49-1614
SWEDISH PATTERN CHISEL, 8 in., five sizes ⅛ in., ¼ in., ¾ in., 1 in. and 1¼ in. wide (9.5, 12.7., 19, 25.4 and 31.7 mm.), stainless steel.

49-1614

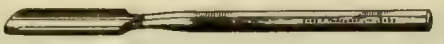
***49-1620**
SWEDISH PATTERN CHISEL, as above, but tungsten steel plated.



***49-1626**
WARD'S NASAL CHISEL, two sizes, 3 mm. and 5 mm. wide, tungsten steel plated.

49-1626

**Tungsten steel instruments now hard chromium plated.*



49-1636

49-1636
JENKINS' GOUGE, 5½ in. (139.7 mm.), five sizes: 3 mm., 4 mm., 6 mm., 8 mm. and 10 mm. wide stainless steel.



49-1642

49-1642
KILLIAN'S NASAL GOUGE, stainless steel.



49-1644

***49-1644**
READ'S GOUGE, with serrated head, 7 in. (177.8 mm.) long, four sizes: 2 mm., 3 mm., 4 mm. and 5 mm. wide, tungsten steel plated.



49-1650

***49-1650**
READ'S HAND-GOUGE, 6 in. (152 mm.) long, four sizes: 2 mm., 3 mm., 4 mm. and 5 mm. wide, tungsten steel in chromium plated handle.

49-1656
READ'S HAND-GOUGE, as above, but Contra-curve.

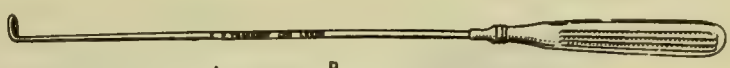


49-1662

49-1662
SWEDISH PATTERN GOUGE, 8 in. (203 mm.) four sizes: ⅜ in., ½ in., ¾ in. and 1 in. wide (9.5, 12.7, 19 and 25.4 mm.), stainless steel.

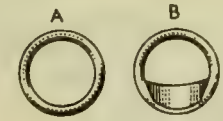
***49-1668**
SWEDISH PATTERN GOUGE, as above, but tungsten steel plated.

**Tungsten steel instruments now hard chromium plated.*



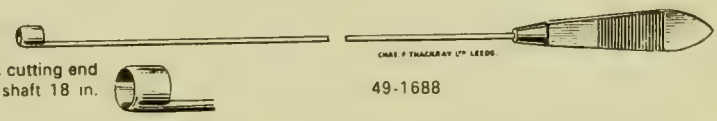
49-1684
FASCIA STRIPPER (A), stainless steel in chromium plated handle.

49-1686
FASCIA CUTTER (B), as above.



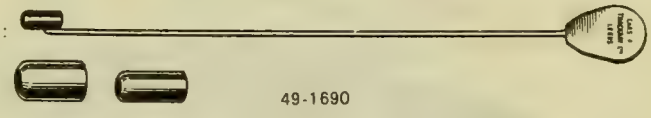
49-1684

49-1688
†BRAND'S PLANTARIS STRIPPER, cutting end 6 mm. internal diameter, mounted on shaft 18 in. (457 mm.) long, stainless steel.



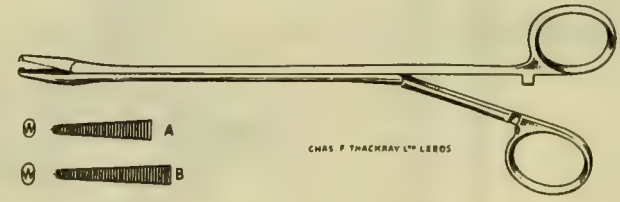
49-1688

49-1690
FURLONG'S TENDON STRIPPERS, two sizes: 4 mm. and 5 mm., stainless steel.

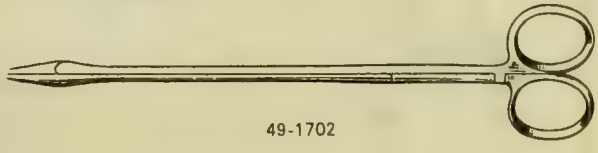


49-1690

49-1700
ANDERSEN'S TENDON TUNNELLING FORCEPS, with slender shaft, multiple joints, serrated jaws with two into three teeth, large size, 9¼ in. long (241.3 mm.), stainless steel.



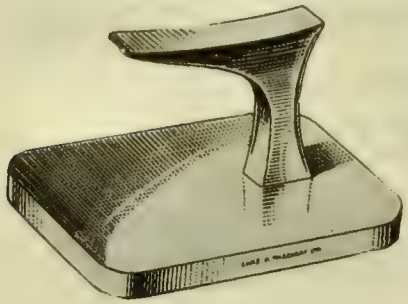
49-1702
ANDERSEN'S TENDON TUNNELLING FORCEPS, as above but smaller size, 7½ in. (190.5 mm.) long and scaled down in proportion.



49-1702

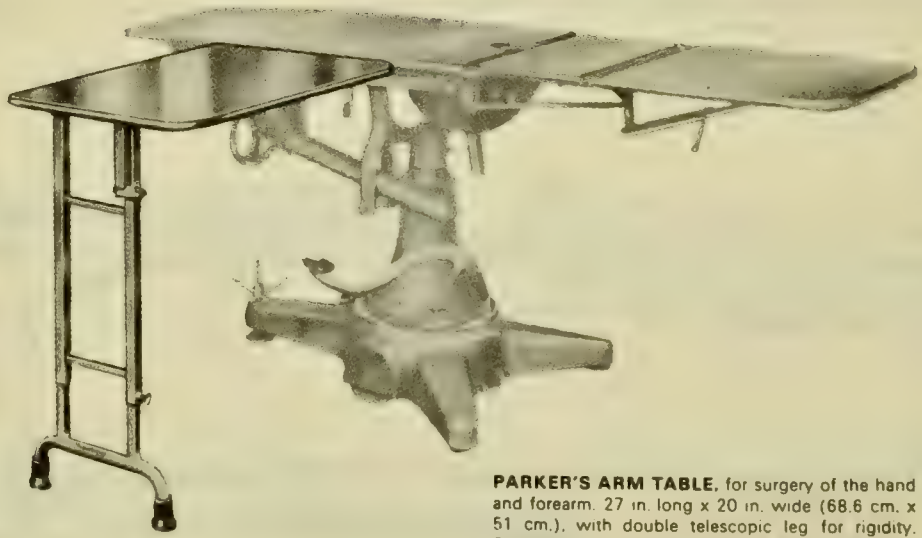
†Professor Paul W. Brand (Christian Medical College Vellore, Madras, India) writes:

"The stripper is designed to remove plantaris and palmaris longus tendon grafts through one small incision near its insertion. It cores the tendon out from inside the muscle substance at the proximal end. The jaws of the forceps open at the end of a tunnel without the handles having to be opened out widely; the nose is blunt and is used for 'feeling one's way around the structures of the hand'."



49-1710

49-1710
ANVIL for HAND SURGERY, solid brass, dull chromium plated.



PARKER'S ARM TABLE, for surgery of the hand and forearm. 27 in. long x 20 in. wide (68.6 cm. x 51 cm.), with double telescopic leg for rigidity. Stainless steel top and enamelled finish with chromium plated fittings.

"The leg folds under the table top for storage purposes"

49-1720
MOULE'S INSTRUMENTS for treating jaw fractures consisting of: *twist drill, 3/32" (2.4 mm.) diameter (A) drill guide, chromium plated (B), transfixion pin with tapered screw, stainless steel (C), pin introducer, stainless steel (D), Clouston-Walker's universal joint, stainless steel (E).

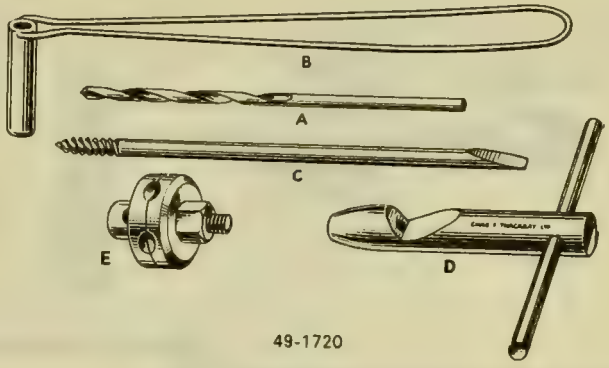
49-1722
DRILLS (A). 3/32" (2.4 mm.).

49-1724
TRANSFIXION PINS (C)

49-1726
UNIVERSAL JOINTS (E)

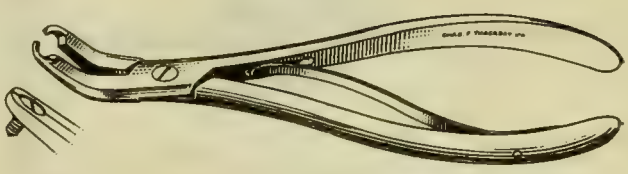
**Fits standard dental handpiece.*

†Screws cupro-nickel, 6 B.A. See Page 33.



49-1720

49-1730
ROWE'S SCREW HOLDING FORCEPS, for 6 B.A. Screws, 6 in. (152 mm.) long, screw-joint, stainless steel.

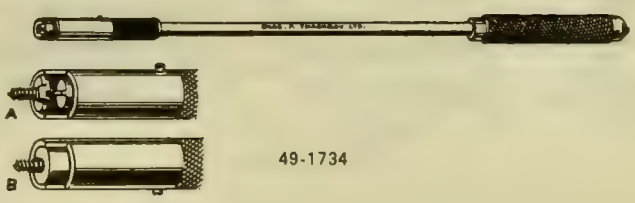


49-1730

49-1734
HAYTON-WILLIAMS' SPRING-LOADED SCREW-HOLDING SCREWDRIVER, for use with 6 B.A. Screws, 7 1/4 in. (190.5 mm.), stainless steel.

For full details of use, please request copy of Thackray Catalogue Supplement No. 7.

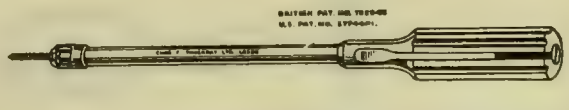
49-1736
HAYTON-WILLIAMS' SPRING-LOADED SCREW-HOLDING SCREWDRIVER, as above, but for use with 10 B.A. Screws.



49-1734

49-1738
ROWE'S modified WILLIAMS' AUTOMATIC SCREW-HOLDING SCREWDRIVER, for use with 6 B.A. screws, stainless steel in anodised aluminium handle.

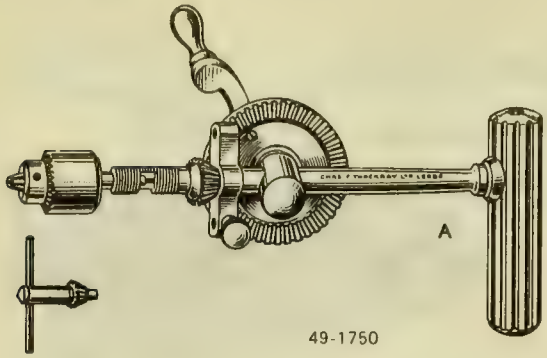
Note — For full details of stainless steel Suture Wire see page 40.



49-1738

All drills now made in stainless steel to B.S.S. 3531 : 1962

PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY



49-1750

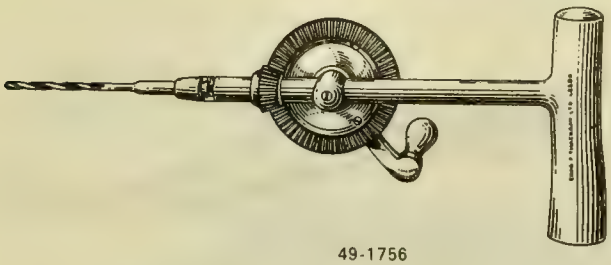
49-1750
McKELVEY'S DRILL, consisting of: Drill Stock (A) fitted with Colt's Handle and Jacob's Non-slip Chuck; and Telescopic Attachment (B), chromium plated.

This drill can be used for either drilling with Morse Type Drills or introducing Kirschner's Wires; the Jacobs' Chuck can be detached and drills with sectioned mounts fitted. The handle can be unscrewed and replaced end-on for vertical drilling.

Used for transfixing a fractured Middle Third of the Facial Skeleton with a Kirschner's Wire.

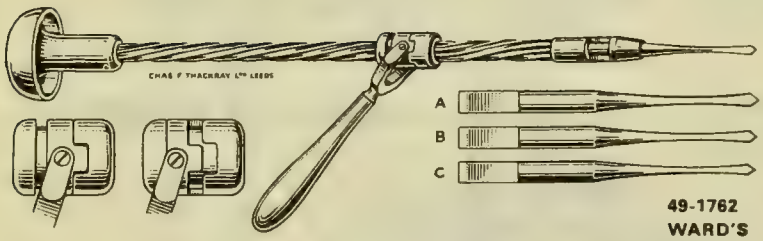


49-1752
DRILL STOCK (A) only with Jacobs' Chuck.



49-1756

49-1756
SWEDISH PATTERN DRILL, chromium plated, with three Morse Type Twist Drills, one each: $\frac{5}{64}$ in. $\frac{3}{32}$ in. and $\frac{1}{8}$ in. (1.8, 2.4 and 3.16 mm.) on sectioned mounts.

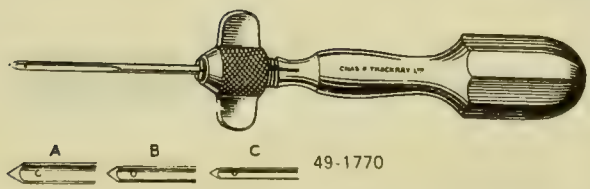


49-1762

49-1762
WARD'S modified ARCHIMEDEAN DRILL, with chuck device giving one way rotary movement, chromium-plated, with set of three drills and one twist drill, No. 50, stainless steel. One each: $\frac{1}{32}$ in., $\frac{3}{64}$ in. and $\frac{1}{16}$ in. (0.79, 1.18 and 1.58 mm.).

49-1764
DRILLS for above, set of three.

49-1768
TWIST DRILL, No. 50 for above.



49-1770

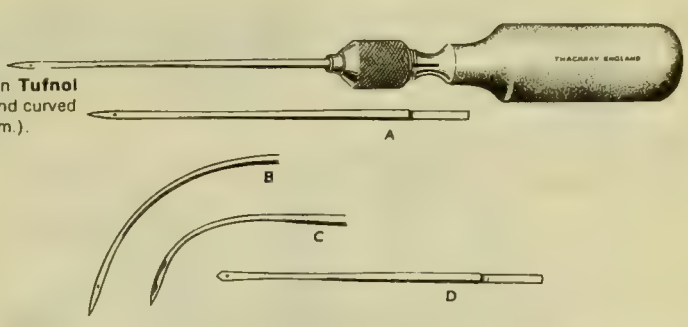
49-1770
ROWE'S BONE DRILL, with winged chuck on chromium plated handle, and three detachable stainless steel awls: Sizes $\frac{1}{16}$ in., $\frac{3}{32}$ in. and $\frac{1}{8}$ in. (1.6, 2.4 and 1.8 mm.).

49-1772
AWLS for above, set of three.

All drills now made in stainless steel to B.S.S. 3531: 1962.

49-1776
TOLLER'S BONE DRILL, with chuck on **Tufnol** plasticised handle, and two each straight and curved detachable stainless steel awls $\frac{3}{32}$" (2.4 mm.).

49-1778
AWLS for above, set of four.



49-1776

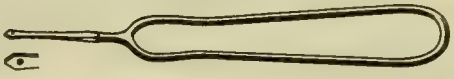
49-1784
BARKER'S SPINAL NEEDLE, four gauges: 17, 18, 19 and 20 S.W.G., $3\frac{1}{4}$ in. (82.5 mm.) long. Record fitting mount, complete with stilette, stainless steel.

Used for passage of Cheek Wire in treatment of Maxillary Fractures.



49-1784

49-1786
KELSEY FRY'S BONE AWL, straight, with "eye" for wire, stainless steel.



49-1786

49-1788
KELSEY FRY'S BONE AWL, curved, with "eye" for wire, stainless steel.



49-1788

49-1794
KILLEY'S CIRCUMFERENTIAL WIRE INTRODUCER, straight stainless steel..

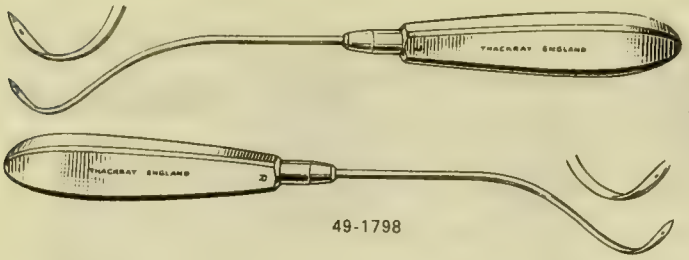


49-1794

49-1796
KILLEY'S CIRCUMFERENTIAL WIRE INTRODUCER, long, curved, stainless steel.



49-1796



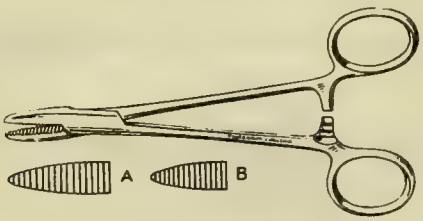
49-1798

49-1798
ROWE'S CIRCUMFERENTIAL AWLS, with "eye" for wire, two patterns; curved to left and right, stainless steel in chromium plated handle.



49-1802

4 9-1802
ROWE'S ZYGOMATIC ARCH AWL, with "eye" for wire and finger rest which indicates direction of point, stainless steel in chromium plated handle.

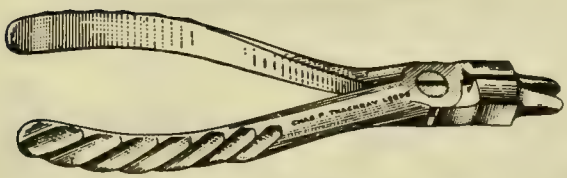


49-1812

49-1812
LAWSON TAIT'S ARTERY FORCEPS, (A) straight, box-joint, 5½ in. (139.7 mm.), stainless steel.

49-1814
LAWSON TAIT'S ARTERY FORCEPS, (B) as above, but with fine jaws.

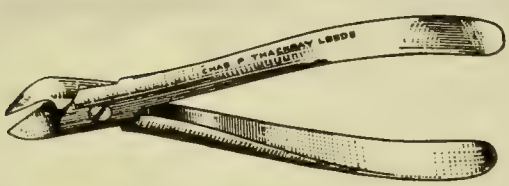
For use as a wire tightener.



49-1816

49-1816
WIRE CUTTERS, PLIERS, for annealed wire, 5½ in. (139.7 mm.), nickel-plated.

Unsuitable for hardened steel wire.



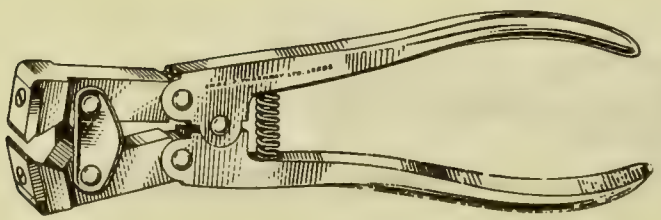
49-1818

49-1818
WIRE CUTTERS, for annealed wire, 6½ in. (164.7 mm.), nickel plated.

Unsuitable for hardened steel wire.

49-1822
WIRE CUTTERS, as above, but with *Tungsten Carbide* cutting edges on jaws.

For cutting hard steel wire.



49-1824

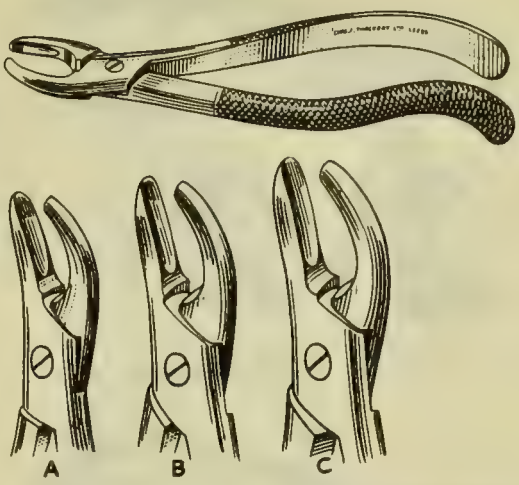
49-1824
WIRE CUTTERS, strong, for guide wires, etc., with replaceable blades, 9½ in. (241.3 mm.) nickel plated.

49-1834
READ'S DENTAL FORCEPS, screw joint, three patterns: A, B and C, stainless steel.

A: Lighter and smaller forceps for roots and deciduous teeth. Convenient to handle.

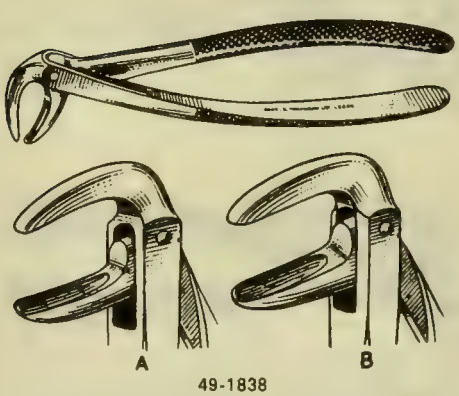
B: Medium forceps for general use.

C: Heavier forceps for resistant teeth.



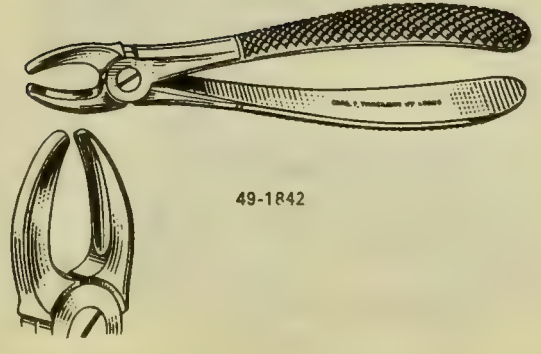
49-1834

49-1838
READ'S DENTAL FORCEPS, box joint, two patterns: A and B, stainless steel.



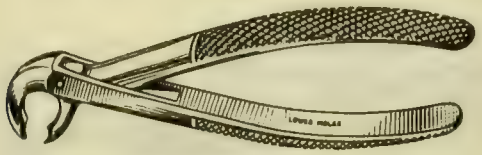
49-1838

49-1842
READ'S DENTAL FORCEPS, circular joint, stainless steel.



49-1842

PLASTIC, MAXILLO-FACIAL, ORAL and HAND SURGERY

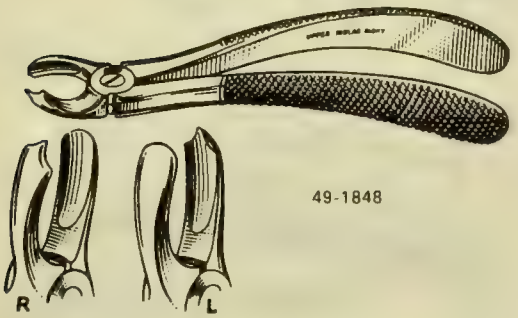




49-1844 49-1846

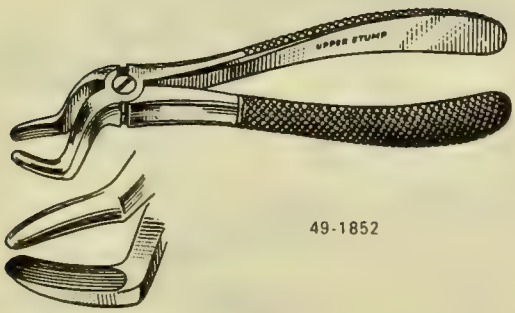
49-1844
WALLIS' LOWER MOLARS FORCEPS, "Hawk's Bill" (A), box joint, stainless steel.

49-1846
WALLIS' LOWER STUMPS FORCEPS, "Hawk's Bill" (B), box joint, stainless steel.



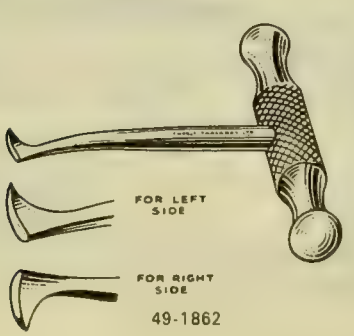
49-1848

49-1848
WALLIS' UPPER MOLARS FORCEPS, circular joint, two patterns: right and left, stainless steel.



49-1852

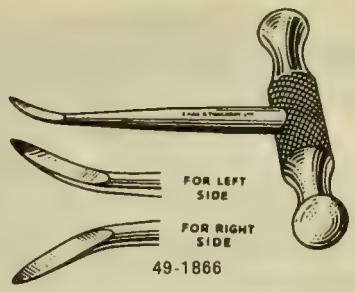
49-1852
WALLIS' UPPER STUMPS FORCEPS, circular joint, stainless steel.



49-1862

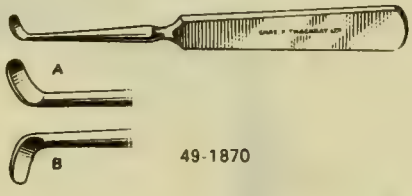
49-1862
DENTAL ELEVATOR, two patterns: for right side and left side, stainless steel in chromium plated handle.

49-1866
DENTAL ELEVATOR, two patterns: for right side and left side, stainless steel in chromium plated handle.



49-1866

49-1870
WARWICK JAMES' DENTAL ELEVATOR, two patterns: A and B, stainless steel.

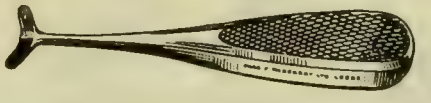


49-1870

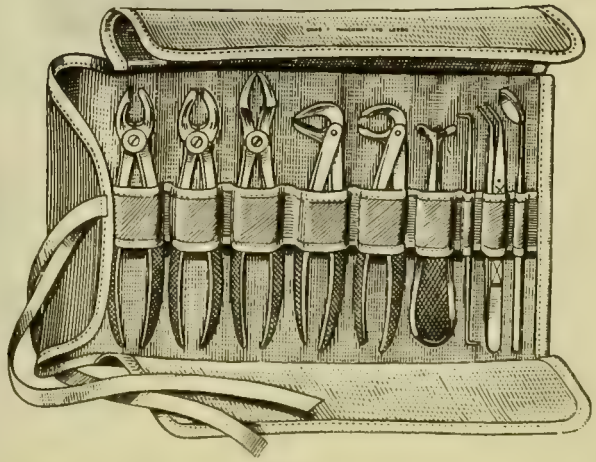
***49-1874**
MEESON'S DENTAL ELEVATOR, 5 in. (127 mm.) long, three sizes: $\frac{1}{16}$ in., $\frac{1}{8}$ in. and $\frac{1}{4}$ in. (0.092, 3.16 and 6.35 mm.), tungsten steel in chromium plated handle.


49-1874

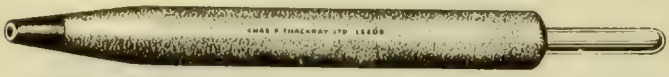
49-1878
WALLIS' STUMP ELEVATOR, double, stainless steel in chromium plated handle.


49-1878

49-1884
WALLIS' DENTAL SET, consisting of:
One Lower Molars Forceps, fig. 49-1844.
One Lower Stumps Forceps, fig. 49-1846.
Two Upper Molars Forceps (one each right and left) fig. 49-1848.
One Upper Stumps Forceps, fig. 49-1852.
One Double Elevator, fig. 49-1878.
One Probe, double-ended, fig. 49-0716
One Packing Forceps, fig. 49-0300
One Mirror, 22 mm., fig. 49-0682
In khaki wrap.

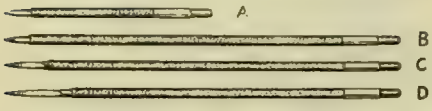

49-1884

**Tungsten steel instruments now hard chromium plated.*



49-1900

49-1900
"BRISTOL" DIATHERMY HANDLE short pattern for facial work.



49-1902. — 49-1908

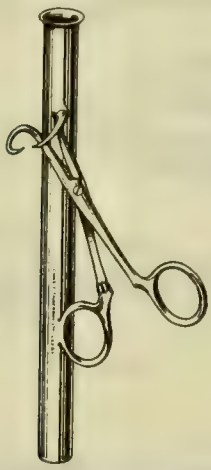
49-1902
"BRISTOL" DIATHERMY POINT, (A) insulated, 25 mm., long, with 4 mm. non-insulated tip.

49-1904
"BRISTOL" DIATHERMY POINT, (B) as above but 55 mm. long, with 4 mm. non-insulated tip.

49-1906
"BRISTOL" DIATHERMY POINT, (C) as above but 55 mm. long, with 7 mm. non-insulated tip.

49-1908
"BRISTOL" DIATHERMY POINT, (D) as above but 55 mm. long, with 11 mm. non-insulated tip.

49-1910
DIATHERMY CABLE, rubber covered, for use with above.



49-1920

49-1920
WINGFIELD'S DIATHERMY "QUIVER", stainless steel.

This instrument provides a convenient receptacle for a Diathermy Handle or Wheeler-Poole's Suction Tube when not in use. By means of the tenaculum forceps—welded to the tube—the "Quiver" can be clipped to the most convenient position in the field of operation.

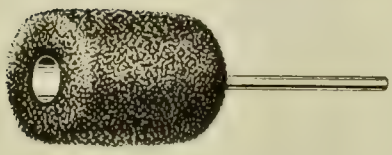


49-1922

49-1922
DIATHERMY "QUIVER", black, anti-static rubber tube, with eyelet for attachment to drapes, size 12 in. long x 2½ in. diameter x ⅛ in. wall. (304.8 x 63.5 x 3.1 mm.).

49-1924
DIATHERMY "QUIVER", as above, but 8 in. long x 2½ in. diameter x ⅛ in. wall, (203 x 63.5 x 3.1 mm.).

49-1926
DIATHERMY "QUIVER", as above but 9 in. long x 1¾ in. diameter x ⅛ in. wall (228.6 x 44.4 x 3.1 mm.).



49-1934

49-1934
BODENHAM'S ABRASIVE CYLINDER for **DERMABRASION,** coated with silicone carbide granules, and with stem to fit standard dental drill handpiece, size 1⅛ in. long x ¾ in. diameter. (28.6 x 19 mm.)

49-1936
BODENHAM'S ABRASIVE CYLINDER, as above but size ⅝ in. long x ¾ in. diameter (15.8 x 19 mm.)

DIATHERMY MACHINES — SUCTION PUMPS
For details see our General Instrument Catalogue or request literature.

49-1946
BODENHAM'S NERVE STIMULATOR, complete with plate-electrode and boilable cables, **without** dissecting forceps.

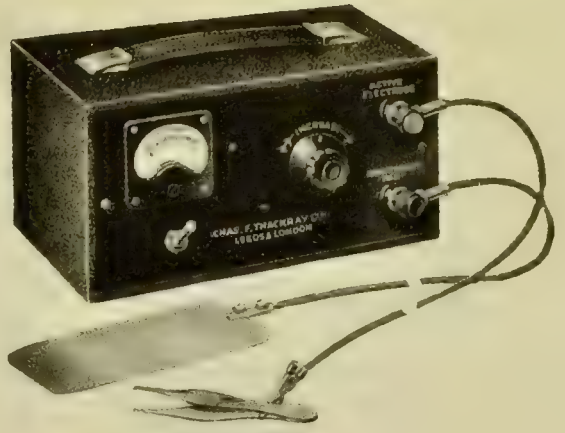
49-1948 CABLES for above.

49-1950 BATTERY for above.

Designed for stimulating the Facial Nerve during dissection for removal of Parotid Tumours.
D. C. Bodenham, M.B., F.R.C.S.E. Bristol.

This apparatus is now fully transistorised to meet all electrical safety demands in modern operating theatres.

Literature upon request.

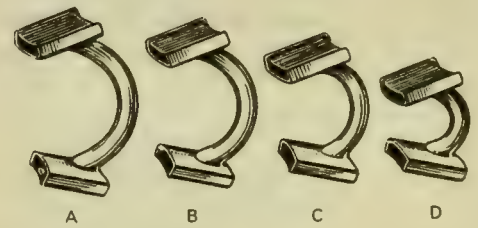


49-1946

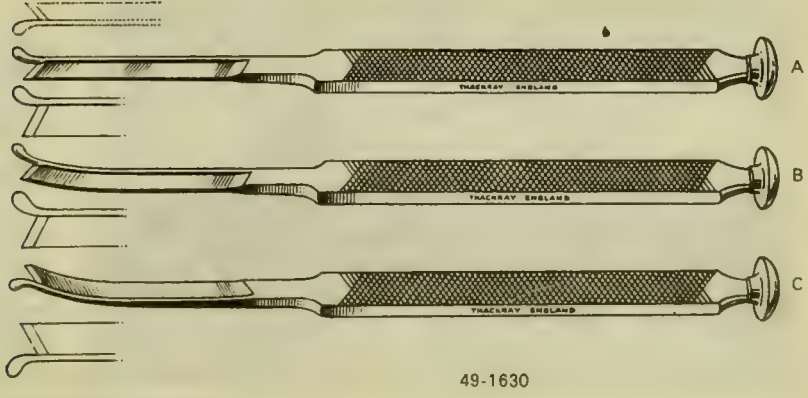
ADDENDA

49-0066
HAYTON-WILLIAMS' MOUTH PROPS, four sizes A, B, C, & D, solid rubber on curved metal bar, chromium plated.

Vide: The "Lancet", February 27th, 1965, page 469.



49-0066



49-1630

49-1630
FRENCHAY HOSPITAL PATTERN modified SILVER'S CARTILAGE CHISELS, three patterns, straight, curved left and curved right, stainless steel.

49-1048
DAVIS & GECK DERMALENE
LINEAR POLYETHYLENE MONOFILAMENT SUTURES

Advantages:—

1 **Exceptionally inert** — in use, excellent tissue tolerance to linear polyethylene has been demonstrated. Foreign body reactions, in comparison to other similar non-absorbable sutures, are virtually obviated.

2 **Low elasticity,** free from stiffness. It will not readily kink or coil, moulds well to tissues, knots firmly with a double knot, and has less tendency to slip than other similar monofilament sutures.

3 **Surgical uses**—invaluable in **plastic** and vascular surgery, or any procedures where an extremely inert suture is required.

Packed in cartons containing 12 sutures each in **SURGILOPE SP** double plastic envelope, sterilized ready for immediate use.

Product No.	Suture Size	Needle Type
12701-43	3-0 x 40" (101.6 cm)	Non-needled.
12712-33 12712-43	4-0 3-0 x 30" (76.2 cm)	25 mm. ½ circle round bodied
12731-23 12731-33 12731-43	5-0 4-0 x 18" (45.7 cm) 3-0	19 mm. curved reverse cutting.
12732-23 12732-33	5-0 4-0 x 18" (45.7 cm)	12 mm. curved reverse cutting.
12733-33 12733-43	4-0 3-0 x 18" (45.7 cm)	24 mm. curved reverse cutting.
12736-43	3-0 x 18" (45.7 cm)	30 mm. curved reverse cutting
12751-23 12751-33	5-0 4-0 x 30" (72.6 cm)	18 mm. ½ circle round bodied. Double Armed.
12752-23	5-0 x 30" (76.2 cm)	12 mm. curved round bodied. Double Armed.
12755-33 12755-43	4-0 3-0 x 30" (76.2 cm)	25 mm. ½ circle round bodied. Double Armed.



49-1714

49-1714
FRENCHAY HOSPITAL PATTERN MATTRESS, for cleft palate operations. Made of special density sponge rubber and covered with anti-static rubber sheeting, size 30 in. (76.2 cm.) long by 13 in. (330.2 mm.) wide, having 5 in. (127 mm.) diameter recess for patient's head.

49-1716 PAD, sponge rubber, covered with anti-static rubber sheeting, to partially fill recess in mattress, size 5 in. (127 mm.) diameter by 1 in. (25.4 mm.) thick.

49-1718 PAD, as above but 5 in. (127 mm.) diameter by ½ in. (12.7 mm.) thick.

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